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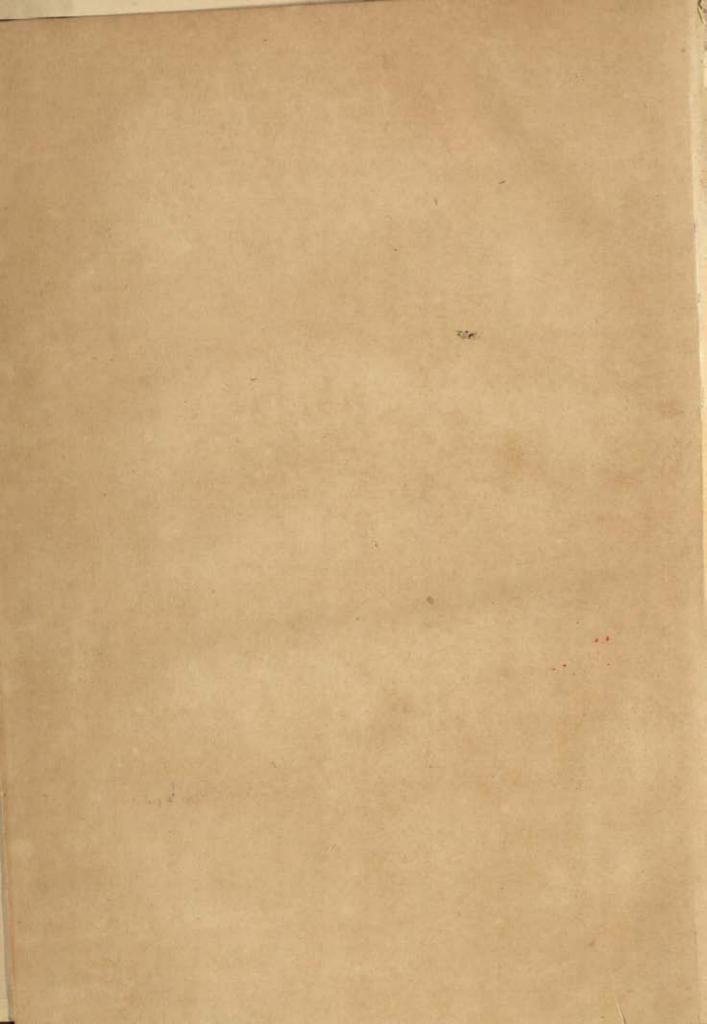
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# ASIATICK RESEARCHES:

## ENTRAL ARCHAFOLOGICAS TRANSACTIONS

OF THE

# OCIETY;

INSTITUTED IN BENGAL,

FOR ENQUIRING INTO THE

HISTORY AND ANTIQUITIES, THE ARTS, SCIENCES, AND LITERATURE.

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## TRANSACTIONS

OF THE

## ASIATICK SOCIETY.

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An account of Experiments made in the Mysore Country, in the Year 1804, to investigate the effects of Terrestrial Refraction.

#### BY LIEUTENANT JOHN WARREN, delider ground

Of H. M. 33d Regiment of Foot.



#### INTRODUCTION.

OTWITHSTANDING the various theories, which have been advanced, at different times, to account for the effects of refraction (1); and the numerous experiments which have been made by the most eminent philosopher of our times, with a view to discover some law by

A



<sup>(1)</sup> Particularly by DE CARTES, LEIBNITZ, the two BERNOUILLIS and lastly by SIR ISAAC NEWTON, whose hypothesis, grounded on the laws of attraction, now generally obtains among physical writers.

which its effects might be reduced to certain narrow limits, applicable to practice, nothing fufficiently fatisfactory has yet occurred, to fet the question finally to rest.

THE late GENERAL ROY was the first among us, who availed himfelf of the favorable opportunity which his furvey prefented, to pay fome minute attention to the effects of terrestrial refraction. After him COLONEL WILLIAMS and MR. DALBY refumed the investigation, as far as the fervice on which they were employed conveniently allowed: but as this was but a fecondary object with them, little additional information is to be gathered from their labours. MAJOR MUDGE has, indeed, made a number of experiments fince that time; but the refult has fallen fo far fhort of his expectations, that he promifes, in his latest publication, to refume, and pay particular attention to the fubject: and we have no doubt every right to expect fomething very valuable from that quarter. But, may not the laws of refraction be fo materially affected by gravity and other unknown causes, as to vary in different parts of the globe, and that theory which obtains in high northern latitudes fail in tropical regions? indeed the irregularities which of late have been detected in the declinations of certain stars, (2) which though unobserved in England, are powerfully felt in these climates, fufficiently show how much we have reason to suspect an effect of the fort, and must evince the expediency of obtaining corresponding experiments in different latitudes; for it is obvious that even to ascertain any deviation in a system, perhaps too generalised, might be attended with incalculable advantages to science.

<sup>(2)</sup> MAJOR LAMBTON, in a postscript to one of his late reports to government, has this observation. "We find here, that different slars give very different latitudes, after being cor"rected for aberration, nutation, &c. At Trivandeporum, the latitude of that station by

Ir must be owned, that to render experiments on terrestrial refraction pointedly useful, it would be necessary to show how discoveries in this province might apply and be extended to refraction in general. Hitherto, on this recondite subject, nothing which would immediately apply has reached my knowledge: but as so much is still to be done whenever refraction is concerned, we may argue, that in the present stage of our information, observations confined to terrestrial objects may be deemed sufficient.

It has been stated on experiments (3) that the refractive power of the air is proportional to its density; and this is as its weight directly, and heat inversely. It would then appear, were our barometers and thermometers sufficiently accurate, that by comparing them at any given time, the ratio of its density might be had. But it has been found, on trial, that in the present unimproved state of these instruments, changes, not very minute, in the density of the atmosphere, escape our notice, when a reference is made to them alone.

<sup>&</sup>quot;Aldebaran was 11° 44' 52" 59. The latitude by Regulus was 11° 44' 47" 84 and the latitude by a Orionis, 11° 44' 40" 91. I had made observations by the same three stars at Paudree station, where those by Regulus and a Orionis were often interrupted on account of the bad weather, and consequently left doubtful; but the differences notwithstanding were nearly the stars, &c. Though these observations have been set aside, they serve sufficiently to prove that the declinations, as laid down in Europe, are irregular here, and this may probably arise from the uncertainty we labour under with respect to the laws of refraction; and in consequence of erring in that, the difference of the corrected zenith distances of two stars observed in Europe, will not be the same as the difference which the same stars will give in this latitude. I am however hazarding an opinion, but as I intend being more satisfied as to the fast, I hope I shall be able to say more on the subject hereafter."

<sup>(3)</sup> By HALLEY.

Now, fince we have every reason to suppose, that whatever share heat, cold or electricity may have separately on the refractive powers of the air (4) their effect is extremely inconsiderable, when compared with that caused by the bulk of water contained in dissolution in the atmosphere: we may therefore, in the present inquiry, consider them merely as agents, composing and decomposing perpetually the air; and neglect the consideration of that immediate effect which Smith and Euler have ascribed to them. Should we then succeed, in ascertaining, with any degree of accuracy, the relative degree of moissure and dryness, at the different times of observation, we shall (without neglecting other considerations) lay more stress on these results, than on what might be deduced separately from observations of the barometer and thermometer.

Before entering into the subject of experiments, it will be proper to preface a few words, on the motives which induced me to attend particularly to the effects of terrestrial refraction, at the time that I did; as it will afford an opportunity of giving an account of the data on which I chiefly proceeded.

HAVING received directions from MAJOR LAMBTON, (5) to measure a line near Bangalore, to serve as a base of verification to the trigonometrical operations which were then carried on under his superintend-

<sup>(4)</sup> EULER after a number of experiments, on the immediate effects of heat and cold, on the refractive powers of media, concludes "that in all translucent substances, the focal distances diminish with the heat, which diminution, he conceives, is owing to a change in the refractive power of the substance itself; which probably increases by heat, and diminishes by cold."

But this applies chiefly to hard media, such as glass lenses, &c. &c. and may be deemed (for the present) too inconsiderable to require particular notice, where air is the medium.

<sup>(5)</sup> Whose affistant I then was.

ance, it occurred to me, when this service was completed, that so favourable an opportunity was not likely to recur, for entering minutely into the subject; for every possible means had been taken, to insure as accurate a measurement as could be effected: and this line, together with the elevation of one of its extremities above the other (ascertained in the course of the measurement) afforded every necessary datum to proceed on in this investigation.

As the detailed account of the abovementioned operation will appear at full length in Major Lambton's reports, and cannot with propriety be given in this paper, I hope that its being known to form a part of the trigonometrical operations, carried on in the peninfula of *India*, will appear a fufficient pledge of its accuracy.

#### ACCOUNT OF INSTRUMENTS.

THE elevations and depressions were taken with the great theodolite, used by MAJOR LAMBTON, for carrying on his series of primary triangles across the peninsula. This instrument, having been formerly described by himself, need not be any further particularized. The angles were invariably taken with the micrometer in the socus of the telescope.

A BAROMETER and thermometer were also procured (6) but from the reasons above given, the want of an hygrometer was likely to deprive me of what I considered to be an essential means of investigation (though I cannot find that such an instrument was ever applied to a similar purpose) when LIEUTENANT KATER, of H. M: 12th regiment, communicated to me his observation, on the bearded seeds of a wild grass,

<sup>(6)</sup> The barometer was a common one, the property of Docron Heyne, the company's naturalist. The thermometer, one of Fahrenheit's division.

of Linneus) which grows in abundance in this part of the peninfula, and which he thought was likely to answer for an instrument of this fort (7).

ALTHOUGH I understand it to be this gentleman's intention, to give an account of his experiments, on these fibres, to the public; yet as his official calls prevented him from going minutely into the subject, at the period when I had occasion for an hygrometer, I was under the necessity of anticipating his intended investigation; and the experiments detailed in the appendix will shew, that after an ample trial, the beards of the Panimoloo grass were found perfectly competent to the construction of an hygrometer. Three of these instruments were therefore constructed, and the mean of their readings noticed in the annexed tables.

#### EXPLANATION OF THE TABLES.

THE detail of experiments, on the effects of terrestrial refraction, together with the immediate results deduced from them, appear in these tables, under the appropriate columns; and a reference to them will best explain their arrangements.

It is however necessary to explain the meaning of certain marks, which appear, at various places, under the figures; and which have been adopted, both for the sake of perspicuity and brevity:

I soon perceived, after collecting a certain number of observations, the prevailing agreement, between the motions of the hygrometer, and the variations, which occurred, in the observed angles of elevation and depression.

<sup>(7)</sup> The beards of the wild oats have been used in England for a similar purpose (see HUTTON'S Dictionary, Art. Hygremeter).

This being a novel and interesting fact (of which I had still more reason to be convinced, after I had succeeded in regulating the hygrometers) I was desirous to draw the attention on this coincidence, and with this view the marks alluded to were affixed.

Taking it for granted (as perhaps the present experiments will be deemed to allow) that where the moisture of the atmosphere is greatest, the refraction, at that moment, is also greatest (and vice versa) wherever, in the annexed tables, the observation rigorously agrees with this theory, the mark (§.) is placed underneath; (8) where the coincidence of moisture and refraction is not absolutely exact, the approximation is pointed out by a cross †‡, shewing, by the number of its bars, how near it comes to perfect consistency.

WITH a view to draw the attention still closer to the effects of moifture on refraction, two columns of differences, which were kept at the time of observation, have been preserved. The column which relates to the angles being marked ±, according as these have been measured grea-

<sup>(8)</sup> It is to be noticed however, that morning and evening observations are compared separately, neglecting those taken in the middle of the day; for these, from the great motion which then disturbs the atmosphere, must necessarily be very imperfect. The only reason, why these observations are not left out altogether, is, that however imperfect they may be, as to a second or two, they contribute nevertheless to establish the proof of the relation of moisture to refraction; for it is to be observed that (when the weather is perfectly clear of rainy clouds,) the refraction is never so inconsiderable as in the heat of noon, when the sun shines brightest, and when the tremor of the atmosphere is most considerable; and the reason of this seems to be "because the atmosphere, however disturbed, is then generally in its driest state." There was so little refraction at that hour that the elevations of the Muntapum frequently bring it out negative; an absurdity which arises, both from the impossibility of taking the angles accurately, and the very small refraction then prevailing.

ter or less, at the two nearest observations; and that of the contemporaneous relative moisture being marked M, or D, according as the atmosphere had changed from a moister to a drier state, and vice versa.

As this coincidence has been very general, I found the shortest way was to mark with an asterisk(\*) those cases where it had failed; and by inspecting the tables, it will appear, that the number of these is comparatively small.

The quantity of refraction, as entered in the appropriate columns, has been computed, according to those respective cases of depression or elevation, founded on reasonings, too generally known, to require any minute explanation.

It will only be necessary to state, that, with regard to the measured line, the formula  $r=\frac{1}{2}A-D+a$  (9) has been used, in preference to that of  $r=\frac{A-(D+D')}{2}$ , for the obvious reason, that a greater reliance was to be placed on the perpendicular depression, obtained during the process of measurement, than on corresponding angular depressions, taken at the S. end of the base line, even though an equal number of observations had been taken at each end.

THE refraction, affecting the elevation of the Muntapum (10) was necessarity computed by means of the elevations and depressions, taken

line.

<sup>(9)</sup> Where r= Refraction,

I A= One half the contained arc.

D= The greater depression.

D'= The less depression.

And u= The angle subtended by the perpendicular depression of S. end of measured

<sup>( 10 )</sup> A small stone building, on a very conspicuous rising ground, about 4 miles N. of Bangalors.

at both places respectively,  $r = \frac{A - (D - E)}{2}$  being the appropriate formula, where E expresses the elevation, and is less than D.

An example of each will suffice to render the subject persectly clear.

## feet, this finbracked from got and MAXE and consequently below

THE length of the measured line (Banswary and Beygoon) being converted into an Arc of a great circle, gives 6' 34," 67=A (11)

AGAIN, the depression of the south extremity of the line (near Beygoor) below the level of the northern one, is 39.7 feet, and using the proportion of radius to tangent, we have for the angle which it subtends 3' 25."75=a.

LASTLY, on the 7th of August, at 6th 39' A. M. the depression of the foot of the slag-staff, near Beygoor, was observed at Banswary, 6' 42" 66.

But the height of the observer's eye above the ground was 5. 67 feet (that of the instrument) which to reduce to the ground, will require 29" 39 to subtract: consequently, the corrected depression will be 6' 13." 27=D (the quantity entered in the tables.) Whence

$$\frac{1}{2}A = 3 \cdot 17'' \cdot 34'' \cdot 72'' \cdot 12'' \cdot$$

#### The refraction entered in the tables.

<sup>(11)</sup> The horizontal length of the measured line is 39799. 31 feet; and when reduced to the level of the sea, = 39793. 7. This length has been used, in this particular case, to obtain the contained Arc; because the tables, by means of which the operation was performed, were calculated to that distance from the center of the earth.

## at bolk pares refrectively, r.IL BARMAX and eporopriate forming

At the same hour, the top of the flag-staff was observed 4' 37." 32; which, corrected for the height of the instrument, as above, gives the depression 4' 07" 93=D. Again, the length of the flag-staff being 24 feet, this subtracted from 39. 7 leaves the perpendicular depression below the line of the level 15. 7 feet; and the angle which it subtends=1' 21" 36=a.

HENCE we have, od to vamouradance in aneillos open

ground, Will remove

The refraction entered in the tables,

# EXAMPLE III.

1st. The distance from the N. extremity of the line (Banswary) to the Muntapum is 26327.3, which converted into an arc of a great circle, is 4' 18" 7=A.

2d. Again, the elevation of the Muntapum was taken at Banfwary (on the same day 8h. 17" A. M.) 9' 21" 84, and this corrected for the height of the instrument (by adding 44" 43) makes the elevation 10'-6" 27=E.

3d. LASTLY, in the beginning of August, during the afternoon, being at the Muntapum, the depression of N. end of line was observed, on a mean of sour observations, to be 15' 19" 5, and the instrument (in the

0

to that different from the center of the earth.

there remains,

Muntapum) being 8, 5 feet above the ground, we have to subtract 1'6' 59, which reduces the depression to 14' 12" 91=D, a constant quantity in computing the 3d column of refraction.

HENCE we have, he was good one dolow or sangel favor and

$$D=14' 12'' 91$$

$$E=10 06 27$$

$$A=\frac{4 06 64}{4 18 7}$$

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$$A=\frac{4 06 00}{4 18 00}$$

$$A=\frac{4 06 00}{4 18 00}$$

$$A=\frac{$$

The refraction entered in the tables.

THE absolute degree of moisture was deduced as follows.

As I knew of no standard, by which I might set the hygrometer, when I was about observing, the least degree of moisture noticed during the day was assumed as zero. This arrangement had this advantage, that the refraction and moisture had a similar direction, and their coincidence met the eye more easily.

THE column which shows the absolute density of the atmosphere was computed by this formula.

$$D=(B-B')\times \frac{1}{9600}\times \frac{1}{1-\frac{\pi}{435}}$$
 (12) founded on reasonings

observation, B' the state of the same when lowest of all, n, the difference of temperature in the air, and d the difference of temperature in the mercury.

fufficiently known. An example however may not be deemed fuper-fluous.

### EXAMPLE. o manipo las anis anismanos

THE lowest degree to which the barometer descended, during the course of these experiments, was 26. 85 inches = B', when the temperature also least of all was 69°. These two quantities are used as constant in the computations.

Now, on the 7th of August, at  $6^h$  39' A. M. the barometer was observed to be at 27=B from which deduct 26 85=B' there remains, 0.15=B-B'

AGAIN, the thermometer at the same time was 75°

from which deduct 69

THE appoints des

and we have 6=n; and as no difference of temperature was noticed in the atmosphere and mercury, the same quantity (6) will also be expressed by d.

HENCE it is that having found,

$$B-B=0.15$$
;  $\frac{9600-4}{9600}=0.99$  &c and  $\frac{435-8}{435}=0.98$  &c.

we have 0.15×0.99×0.98=0. 145530; which to reduce in terms of B (the least density) we have  $\frac{26.85}{0.145530} = \frac{1}{184}$  the increase of density.

LASTLY, to obtain an expression in absolute numbers, we have, as 26.85: 26.85 + 184: 1000: 1000. 202, the quantity entered in the tables.

THE remaining columns are fufficiently explicit to require no explanation.

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1	3.1	5	127	79	-	1	1									-		10 03 1	2	8 M 15	150 10 0 20	live.	15					,	Motion in the atmosphere considerable: fun thining.
1	133	1	1 17	79	1	1		1											-23	72 D 95			11		- 1			58 00	Sun fhining bright: light clouds,
	1		7 17	83	1	1	1	. 4								-		9 39 4	-84	58 D 55	\$5 1000 90		1						
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50 2		10	4 87	76							17	H						-	- 3	15 D 110	and the same of th							- 1	Ditto ditto.
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					5	100			5	10000000	3	III come	1 0 1	D 5	50		1		1 4	97 D 5	c				as 88	1 15 52	13, 47		Ditto ditte.
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Hardly.		9	4 27	05 78		-	44					4-22 15	+ 7 9	D s	400	1000 27	1 16 53	9 59	18		490 1000		11		14 05		>3 87	104 31	Cloudy: fun fhining: motion in the atmosphere,
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		11	6 27	81								,			1		1 5	9 48	14	30 D 81	100 1000	202 Neg	t-				10.03	3 3	Motion in the atmosphere; light clouds,
	1					1		116			1						1	1	- 5	50 D 6	6 1000	1	11						Sun thining : cloudy.
	1		7 37	04		1	0 1							-11		1	1	9 41	+ 28	78 D 6	5			-	1	1 2	255		
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	1				1 +	1			+		1.+	,		1	19		15	1 9	1	1	1 5	1 1	1	J	1	1	7 58	13 13	

N. B. Where the refraction is faid to be negative, as frequently occurs in observations of the Muntapun, it is only meant to state, that, from various causes, the angle of elevation was taken too small; and from this inaccuracy, a result equally detective has ensued. These observations have been preserved, as an instance of the very small quantity of refraction, prevailing, at the time when they were taken.

#### REMARKS ON THE RESULTS.

1st. The most remarkable fact, which calls for our attention, in the results of the present experiments, is the almost invariable coincidence of the increase of refraction with that of moisture; which will appear still more forcibly, if we consider the results of the following eight observations, all taken between 10 and 12 o'Clock P. M. on different nights, when I was engaged in observing the eastern elongation of the polar star; the depression of the S. extremity of the line being taken by means of a referring lamp.

Days.	D	epreff	ions.	R	Refraction.							
Augt.		100	Aves To		-	diam'r.						
7	5	1711	33	11	2511	76						
10	6	36	1-015	1	6	85						
2.1	3	40	18	1	2	91						
11	5	49	64	0	53							
13	15	.51	2.1	0	51	45						
14	5	54	36	1 0	48	72						
15	- 5	2.3	63	1	19	46						
10	5	40	97	1	2	13						

#### Mean refraction 1' 1" 38.

On comparing the hygrometers, as they stood at the time of these observations, with their position when last noticed in the day time, it was found that they had revolved, on a mean, 240° in the direction of moisture. Now, the mean refraction of 55 observations, noticed in the tables, is 29" 74; and we have seen that of the 8 observations taken at night (which from the stillness of the air may be deemed to balance, a superior number,) to be 1' 1" 38. Hence it will appear, that the latter is something more than dauble the former.

. 2d. We shall next advert to the comparative quantity of refraction, which seems to have affected the observations of the affected phieles.

referred to in the tables; and here, it is perhaps worthy of notice, that out of 49 contemporaneous observations, of the top and foot of the flag-staff, at the S. extremity of the line, the refraction attending those of the foot are 36 repeated times lefs than those of the top; and that, in the 13 remaining ones, where the contrary occurs, the excess is feldom above 2" of refraction, and frequently below unity. (13) As this circumstance is in opposition to the general theory, "that the lower the object, the greater the refraction," should the same circumstance occur again, in future experiments, it will be worth while to inquire, whether the rays, when paffing through the atmosphere below the line of the level, may not be refracted differently from what they are when passing above it. This may perhaps be thought better than a mere conjecture, if it be recollected, that MR. BOUGUER, (whilst employed in measuring a degree of the meridian in South America, and observing on the summit of the Cordeliers) noticed a fudden increase of refraction, when he could view the stars below the line of the level.

3d. With regard to any attempt towards estimating the effects of terrestrial refraction, by an assumed ratio to the contained arc, as has been hitherto the practice; without entering into any discussion of the subject, I shall only observe, that if in the foregoing experiments, we go by the observations taken in the day time, we shall have (considering the foot of slag-staff, and preserving the same notation)  $r = \frac{1}{11.27}$ ; and if we take those

<sup>• (13)</sup> The mean difference of refraction, between the top of the flag-staff and the Muntapum, (on 38 contemporaneous observations) is 16". 44; and that between the top of flag and Muntapum is 22". 51 where the order is inverted by 6". 07: and if the top and foot of flag staff be compared, in an equal and contemporaneous number of observations, the mean of their difference is 6". 08 likewise in the inverse order.

by night, it will be  $r = \frac{1}{6.43}$  of the contained arc, from which we can collect nothing.

4th. I HAVE now only to add a few words, on the comparative denfity of the air, at the different times of observation, such as entered in the tables; and the evident want of connection, between its changes and those in the refraction; from which we may infer, that although in northern climates (where the mercury will rise and fall several inches in one day) observations of the barometer and thermometer may be attended to with advantage, on the contrary, in tropical countries, where (as appears in the present experiments) the variations of the mercury are hardly discernible, (14) those instruments will prove perfectly inefficient.

# APPENDIX.

An account of Experiments on the fibres or beards of the Panimooloo grass; containing also an account of the construction of the hygrometers, used in the preceding experiments.

Before I proceed to give an account of the experiments, by means of which I satisfied myself of the competency of the beards of the Panimoalso grass, to the object I had in view, it will be necessary to give a short description of the plant itself, or (since a botanical account of it is not here intended) of that part of the plant, which was used

<sup>(14)</sup> At Madras, the greatest alteration was observed o. 75 inches: and the mean annual change o. 53. At Banswary, during the time of attending to the present experiments (that is about twelve days, ) the greatest change was o. 2: the latter place being 2970. 8 feet above the level of the Sea.

in the construction of the hygrometers, consulted in the preceding experiments on refraction.

THE Panimooloo grass, which grows chiefly on mountains, and is well known to the natives, from its beards easily catching and adhering to their clothes, produces a kind of ear, somewhat resembling that of wheat. Its feed vessels shoot out long fibres, of a hardy texture, which entwist one with the other from left to right, so as to resemble, when in that state, a diminutive coir rope.

THESE fibres, or beards, are the part of the plant used in the construction of the hygrometers, and consequently deserve particular notice.

EACH fibre shoots out, in a straight line, nearly to the length of an inch, from the seed vessel, to which it adheres; then tapers off, in curls, to a very fine end, so that the former part of it can alone be used for the present purpose.

WHEN viewed through a magnifying glass, it appears to be made up, like a rope, in broad strands, twisted from left to right; which, when water is applied (contrary to its effect on a rope) are gradually unfolded, and cause the motion of which I availed myself.

The twifts, in the straight part of the stem, are from 5 to 7 in number; and these, as I have found by experiments, nearly mark the number of revolutions, of which the sibre is susceptible, by the application of moissure.

When diffected, the stem was found to be made up of two sibres, connected by a slight membrane, easily divided, and twisted round each other, until they were united in a common stalk, at the feed vessel at one end, and above the first curl at the other.

This construction readily explains why it should be easily affected by either moisture or dryness, but does not evince that heat, or other changes in the ambient air, might not likewise operate upon it in the same direction. The following experiments satisfied me however, that moisture alone unfolded the stem.

## eron of a believe de EXPERIMENTI,

trid Beamond inch

HAVING fixed a stem, about an inch long, with six twists in it, on a piece of wax, a slit straw was fastened at its upper end, by way of index: The whole was then placed clear of any motion of the air, in such a position as the nature of the experiments required; and a graduated circle of paste board was so placed about it, as to indicate the number of revolutions and degrees which the index went over.

THEN, on placing my hand within an inch of the stem, the index generally moved from 5° to 10° of the circle, from left to right; and as motion in this direction was invariably the consequence of moisture, it was probable (but still it remained to be proved) that the effluvia arising from perspiration principally affected it in this case.

#### EXPERIMENT II.

· By breathing violently on the stem, I generally brought the index round from 70° to 90° in the same direction; and it would go back to its original place, as soon as let free.

This was a sufficient proof of its great sensibility; but to make sure whether moisture or heat caused it to move in the two preceding cases, I had recourse to the following.

#### EXPERIMENT III.

I FIRST applied a red-hot bar of iron, as close to the stem, as could be contrived without burning it, which moved it uniformly from right to left.

AGAIN, having prepared another stem, I applied the steam of hot water, issuing from the spout of a Tea-kettle; which caused it to move, with great violence, several revolutions from left to right; which was a sufficient proof, that heat acted on this grass only in as much as it deprived it of its moisture.

I THEN proceeded to ascertain, whether the stem was any way regularly affected by the changes in the atmosphere; a point on which every thing depended. With this view I made up three hygrometers, on the following construction.

THREE stalks were taken, of the same length and number of twists, and being fixed, at one end, into a piece of wax, with an index (as above deferibed) the whole was fixed at the bottom of so many strong tin boxes, about 2½ inches deep, on the edge of which was placed a moveable broad paste-board circle, graduated every 5°, and divided in the common way of 360°. (1) These three hygrometers were then placed together, and observed, for two successive days, at every hour of the day, from 7 o'clock in the morning, to 8 in the evening; noticing, at the same time, both the barometer and thermometer; as the annexed tables will show.

<sup>(1)</sup> This graduation will I trust appear perfectly sufficient, when it is considered, that the mere effluvia arising from perspiration moved the index 88 or 108, as above mentioned.

Table showing the comparative rate of going of three Hygrometers.

i	the,			a still	WE III	Н	grome	iers	यु 🗗	1	वृत्व तथातम् एरामान्युरा वस्त
	Days and Months	Hours,	Ther mometer,	Barometer,	No. 1	nce,	No. 2	nce.	No. 3	Difference	REMARKS.
- 1	5th	- 8	77	-	15]	=	-	51	10	THE STATE OF	Light clouds, fun fhines,
1		9	78		20}	5	FAE		15	13	Ditto ditto,
-		3	75		15	35	The best	9	25]	40	Ditto light breeze,
			77		185	170	2157	165	210	185	Sun thines,
			79		345)	160	380}	1	375	165	Bright fun-fhine, light air,
d			80		475	130	510]	130	505	130	Ditto,
		2	86		585	110	630	120	610 7	105	Ditto,
		1 3	87		660	75	715]	85	595	85	Ditto,
			82		675	15	740	25	715	20	Ditto, The worst and start.
		5	83	27	680	5	745]	1 5	720	5	Squalls all about,
100	13	1.0	80		585	95	660	85	610)	110	Ditto ditto,
		1	78	4 1 5	512	73	615	45	550	60	Cloudy,
		1	78	10-21	360	152	(faits)	ive	390	1169	Cloudy,
	6th		-	27	+ 220	140	240]		- 240	150	Cloudy and windy,
	0.5		1	27.00	+200	20	215	25	225 ]	1 15	Ditto ditto,
			1	1 1	+ 125	75	1507	65	150	75	Dirto ditto,
		15	1	1	+ 15	110	1 (	105		150	Ditto ditto,
		1.		27	-170	185	- 90	135	1-175	178	Dicto ditto,
	1	1		-	-240	170		T.	-350	175	Sun thining occasionally,
		Y	1"	27	505	165	1 510]	1	5207	170	Sun fhining occasionally,
	1		1	26 7		100	585	7	605	8	Ditto ditto,
7.0	-	1		27	520	85	460)	12	515	9	Light clouds,
	1			27	590	79	565	10	595	80	Cloudy,
	1	i	1	1 27	660	117	665	100	670	7.	Ditto,
	-			0 27	665	1 5	675	1 1	680	1 1	Ditto,
	1	1	-	1	630	35	645	3		4	Ditto.
	1_	-	117	9 27	1 05	-					C 18-

N. B. In this table Zero is to be taken betwen the figns, +&-

Ir may, however, be proper to mention, that notwithstanding the great regularity which appears to prevail between the rates of going of these hygrometers, whenever the atmosphere was uncommonly moist, the exquisite sensibility of the stem required to be checked; for, as it would some times, during a heavy shower, revolve a whole revolution, it was not to be expected, that the three instruments would keep pace, whilst moving so briskly. A silk thread was therefore fastened, at each end of the index, loaded with a thin plate of lead, hanging loose on the bottom of the box, so as to be dragged by the straw as it went round. By these means, the instruments were easily regulated.

#### EXPERIMENT IV.

APPLICATION of heat, to determine the compals of the instrument.

HAVING fixed a stem, of 6 twists, in such a manner as to admit it; I brought a bar of heated iron, as close to the stem as could be done, without setting fire to the apparatus; on which the index revolved, 2 revolutions and 105°, from right to left, when it became quiescent. That is, the heat of the iron affected it no longer in that direction, and was barely sufficient to keep the index from falling back.

THE heated bar being withdrawn, the index began to recede; and became quiefcent again (that is in its natural position) after having returned 290°.

But the three hygrometers, whose rate of going is given in the preceding table, had moved meanwhile 204° towards it; and therefore this quantity is to be added to the above, Namely 290°

+204

494=1+134°

WHENCE it will appear, that fince the index had moved, by the application of heat,

2+105=825°

and that, by cooling, it only recovered 1+134=494

it follows, that the stem, by being deprived of its radical moisture, lost a power

=331°

#### EXPERIMENT V.

#### In severy and an enter Application of moisture.

As foon as the index of the same stem gave signs of proceeding regularly with the hygrometers, a hair pencil, full of water, was applied, and held to the stem; when it revolved 6+295° from left to right, and then remained quiescent. On the pencil being withdrawn, the index began to recede, and resumed the course of the other hygrometers, after revolving 6+300°.

Bur, during the interval of this experiment, these had moved 135°, in the same direction with that under observation, which quantity is therefore to be subtracted.

Namely 6+300

AGAIN, we have feen, that by the application of extreme moisture, the index had revolved,

Hence it will appear, that this process

affected the fibres of the stem by,

THE thermometer, at the beginning of this operation, was 77°; and at the end 79°.

From the above experiments, it will appear, that, fince by the application of extreme heat (procuring extreme dryness) the index had revolved, from right to left;  $2+105^{\circ}$  and, by the application of extreme moisture, from left to right 6+295 it follows, that the sum of these two quantities, viz. =9+40 is the compass of the stem.

This result evinces, that the mean state of the atmosphere does not correspond, nor can it on any occasion, with the mean of the power of this instrument.—(2)

A SECOND stem having been selected, and the same process, as above related, repeated; it moved by extreme heat 2+290°, and by extreme moisture 8+320°; so that the compass of this sibre was 11+250°; which exceeded that of the former by 2+210; but, on examining it closer, after the operation, it was found that, although taken of the same length, it contained one twist more than the former; which accounts for its greater compass.

#### EXPERIMENT VI.

fore to be fabriathed.

#### Application of Steam.

THREE stems having been selected, and being fixed as usual, the steam of boiling water, issuing from the spout of a tea kettle, was applied to one of them; when it moved, from lest to right, with violent convulsive mo-

<sup>(2)</sup> The stem, which was used for this experiment, was afterwards compared, when made up, with other hygrometers; and it did not appear to have lost of its activity, by this process.

tions (so rapid as hardly to admit of counting them)  $6\frac{1}{2}$  revolutions; the 2d, 6; and the 3d  $6\frac{3}{4}$ ; when they remained quiescent.

Now, we have feen above (exp. IV.) that a stem, of this length and number of twists, revolved in that case 6+300°; and in the present, nearly 6+180 (on a mean of three.) The application of steam, therefore, if we consider the small difference of the two results, may be conceived to have affected the stem, only in as much as it moistened it.

SEVERAL other experiments were also tried, but being of the same nature as the foregoing, and the results nearly similar, they need not be particularized.

Acres as led me so remade, that the bendedded of this graft
polished an extreme leadibility of incidings; and, being then inwrite of
analygemetry, I continuous of this material, which on trial farter.

ceeded my expectations.

inch amiliali in depth. Withmulie inter about a quarter of in inch from the top, was affar ring, three tends of animals in secretary and divided rate a cartain number of equal parts. A hole was made, the ugh the required in the top the bottom of the box, and a giacular plate of braits about no made in the bottom of the box, and a giacular plate of braits about no made in diameter, was rivetted to the bottom. On the outfide, a note, was made in the rivet, finilar to that in the head of a common wood forewards that the circular plate, within the box, could be sained rough, at plate that the circular plate, within the box, could be sained rough, at plate that the circular plate, within the box, could be sained rough, at plate

<sup>\*</sup> It is the dedectores Conterent of Leunewes, and manybe coldy difficultified from all characters for the finds attaching themselves to the clother of drofe who walk where it grows."

.House them) Efrevelutions the

## Description of a very sensible hygrometer,

#### BY LIEUT. HENRY KATER,

-ouris anal lo co H. M. 12th Regiment.

In the Myfoor and Carnatic is found a species of grass, which the natives call, in the Canarese language, Oobeena hooloo, in the Maratta, Guvataa fac cooflee and in Tamul Yerudoovaal pilloo.\* It is met with, in the greatest abundance, about the month of January, on the hills; but may be procured in almost every part of the country, and is very generally known.

ACCIDENT led me to remark, that the bearded feed of this grafs possessed an extreme sensibility of moisture; and, being then in want of an hygrometer, I constructed one of this material, which on trial far exceeded my expectations.

I CAUSED a box to be made of brass, sour inches in diameter, and an inch and half in depth. Within the box, about a quarter of an inch from the top, was a flat ring, three tenths of an inch in breadth, and divided into a certain number of equal parts. A hole was made, through the center of the bottom of the box; and a circular plate of brass, about an inch in diameter, was rivetted to the bottom. On the outside, a notch was made in the rivet, similar to that in the head of a common wood screw; so that the circular plate, within the box, could be turned round, at pleafure, by means of a turn-screw, applied to the notch on the outside.

<sup>\*</sup> It is the Andropogon Contortum of LINNAUS, and may be easily diffinguished from all others, by the feeds attaching themselves to the clothes of those who walk where it grows.

A seed being chosen, the top of it was cut off, it having been found by experiment to be perfectly insensible. A straw, the lightest that could be procured, two inches and a half in length, and coloured at the end intended to be the index, was divided longitudinally, in the middle, by the point of a fine pen-knife: the knife was then turned a little on one side, till the opening was wide enough to admit the beard of grass; which being inserted, and the point of the knife withdrawn, the straw closed, and held the beard of grass sufficiently firm.

Not being able to procure workmen, capable of executing what I wished; the hygrometer, thus prepared, was fixed in a rude manner, to the circular plate at the bottom of the box, by means of a piece of sealing wax, in which a very small hole had been made, with a hot wire. The beard of grass being placed in the hole, it was closed, by touching the wax on one side with a heated wire, taking care to set the grass as upright as possible.

It remained now to determine the extremes of dryness and moisture, and to fix on some mode of division, by means of which this hygrometer might be compared with any other.

A NEW earthen pot was made very hot, by putting fire within, as well as around it; and when it was supposed to have been sufficiently burnt, to be perfectly free from moisture, the fire was taken from the inside, and the pot suffered to cool, till the air in it was of the temperature of 160°, but not lower. The hygrometer was then placed in the pot, being kept from touching the bottom, by means of a piece of dry wood; and it remained there nearly an hour; long before the expiration of which time, the index was perfectly steady. The hygrometer was then quickly taken out of the pot, and the circular plate, carrying

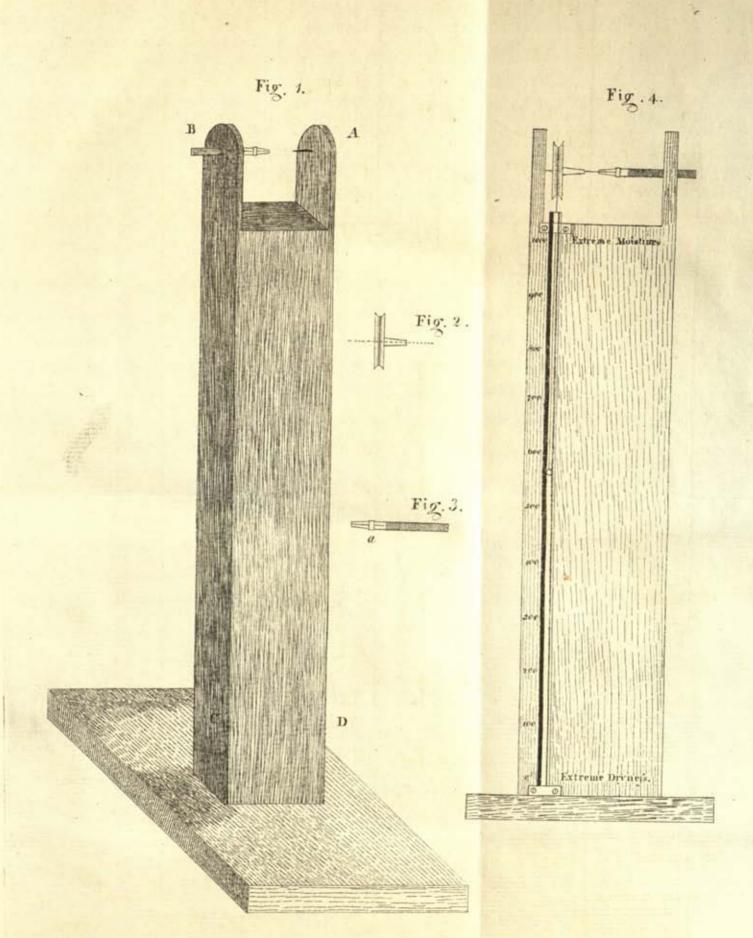
the whole, was turned round, by means of the notch on the outfide, till the index, or coloured end of the straw, pointed to Zero.

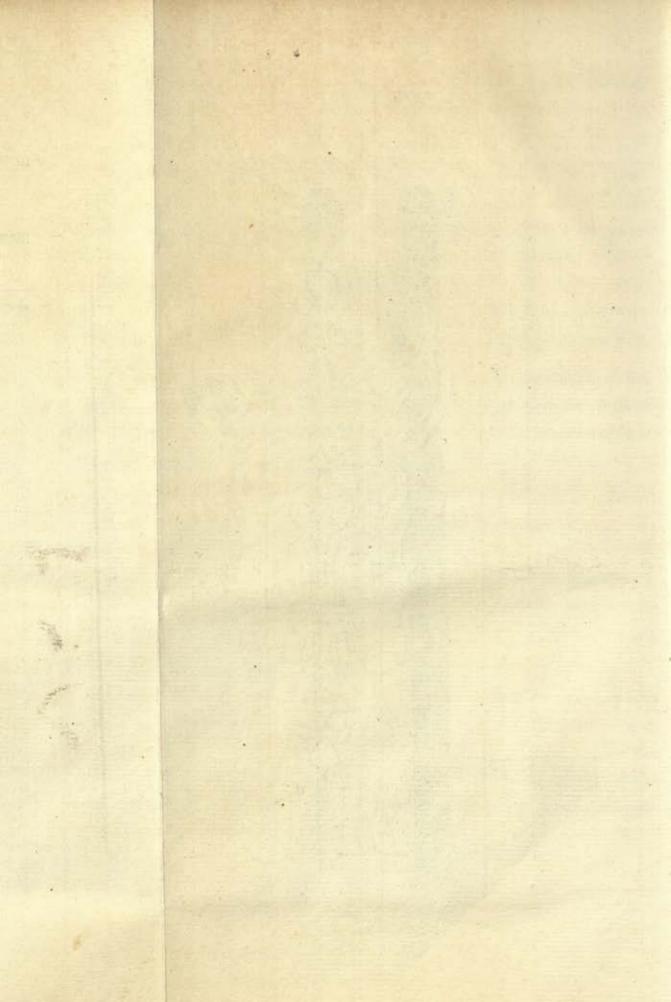
To obtain extreme moisture, it was at first thought, that the best mode would be to fill the box with water; but, on trial, this was found to disturb the index too much. The beard of grass was therefore thoroughly wetted, with a fine hair pencil dipt in water, and the number of revolutions, made by the index, observed. Care was taken, to allow sufficient time, for the water to have it's utmost effect; and in this manner, the hygrometer I have at present was found to make three and a half revolutions, between extreme dryness and extreme moisture.

As some fixed mode of division is necessary, to render observations, made by different persons, intelligible to others; I imagine the scale of this hygrometer to be divided into 1000 equal parts, commencing at extreme dryness.

The sensibility of this instrument is very great. The effluvia of a singer, applied about a quarter of an inch from the grass, causes the index immediately to shift eighteen divisions; and on withdrawing the singer, it instantly returns to it's former situation. Gently breathing on it, at the distance of about a foot, moves the index sifty six divisions. It is equally susceptible of the moisture of the atmosphere; scarcely ever remaining steady, for any length of time, in variable weather.

Such was the construction I at first employed; but on applying it to use, so much difficulty occurred, in ascertaining the number of revolutions, made by the index, that I was induced to attempt to give the whole a more convenient form, and to adapt to it a scale, such as might preclude the possibility of mistake, and at the same time, leave the hygrometer in possession of its extent and sensibility.





A B C D fig. 1. represents a piece of wood, about fourteen inches long, three inches broad and one inch and two tenths thick; the upper part is cut out, as in the figure, to the depth of two inches, leaving the fides A and B, about three tenths of an inch thick: the wood, thus prepared, is morticed into a square board, which serves as its support.

Fig 2. is an ivory wheel, \* about an inch and two tenths diameter, and two tenths of an inch broad at the rim. A femicircular groove is made in the circumference, of fuch a depth, that the diameter of the wheel, taken at the bottom of the groove, is one inch. Through the axis, which projects on one fide four tenths of an inch, a hole is made, the fize of a common fewing needle; and on this, as a center, the wheel should be carefully turned; for on the truth of the wheel, the accuracy and fensibility of the instrument chiefly depend. From the bottom of the groove, a small hole is made, obliquely through the side of the wheel, to admit a fine thread. All the superfluous ivory should be turned away, that the wheel may be as light as possible.

Fig. 3. represents a piece of brass wire, two inches long; on one end of which, a screw is made, an inch and a half in length; and in the other a notch is cut, with a fine saw, to the depth of half an inch. This part is taper'd off, so that the notch, which is intended to hold the beard of grass, in the manner hereafter described, may be closed, by means of a small brass ring (a) which slides on the taper part of the wire.

A LITTLE below the centers of the semicircles A and B. (fig. 1,) two holes are made, precisely in the same direction: one of these is intended

<sup>\*</sup> In my first experiments I used a wheel made of card paper, with an axis of wood, which answered very well.

to receive the screw fig. 3, and the other a gold pin, which is to project four tenths of an inch beyond the inside of the part A. The pin is made rather smaller than the hole in the axis of the ivory wheel, and is highly polished; in order that the motion of the wheel may be the less impeded by friction.

Two fine threads, about fourteen inches long, are passed together through the hole in the groove of the wheel, and are prevented from returning, by a knot on the outside. To the ends of these threads, two weights are attached, exactly similar, and just heavy enough to keep threads extended.

ONE of the threads having been wound on its circumference, the wheel is to be placed on the pin, about the tenth of an inch from the fide A, as in fig. 4. Two glass tubes, of a sufficient bore to admit the free motion of the weights, are fixed in grooves, in such a manner, that each thread shall fall exactly in the axis of the tube. The tubes are so long as nearly to touch the ivory wheel.

THE beard of the Oobeenahooloo being prepared, as for the circular hygrometer, by cutting off that part which is ufeless, is inserted about the tenth of an inch, in the projecting end of the axis of the wheel, and confined by a small wooden pin, which is to be broken off close to the axis; the other end is placed in the notch of the brass screw, before described, and secured by means of the sliding ring.

It is evident, that when the grass untwists, the wheel will turn on the gold pin; and the thread, which is wound about it, with the weight attached, will descend in the one glass tube; whilst, on the contrary, the weight in the opposite tube will ascend, and vice versa.

THE beard of grass is now to be throughly wetted, with a hair pencil and water, and when the wheel is stationary, the weights are to be so adjusted, by turning the brass screw, that the one shall be at the top, and the other at the bottom of the glass tubes, which points will mark extreme moissure.

The inflrument must then be exposed to the sun, or to some heat, not powerful enough to injure it, but sufficient to obtain a considerable degree of dryness. The weights will now change situations; and probably, on the first trial, will continue to move beyond the glass tubes. Should this happen, the beard of grass is to be shortened, by sliding back the ring, and advancing the brass screw, so as to include a longer portion in the notch. Other trials are to be made, and the length of the grass varied, till the extremes of dryness and moisture are within the limits of the glass tubes.

As this instrument cannot conveniently be exposed to so high a temperature, as is necessary to obtain extreme dryness; this point may be aftertained by means of a standard circular hygrometer. The point of extreme moisture has been already determined; and in the circular hygrometer, the number of revolutions, &c. between the extremes is known. The two hygrometers are to remain some time together, that they may be in the same state with respect to moisture; marks are then made, where the weights rest in the glass tubes, and the degrees shewn by the index of the standard hygrometer noted. Lastly, the distance between these marks and extreme moissure, is to be divided into the same number of equal parts, as are indicated by the standard hygrometers and the divisions continued, to the number denoting extreme dryness.

Is the whole of that part of the Oobeena hooloo, which possesses the hygroscopic property be used, the scale will comprize more than twenty
four inches, a length, which the perhaps useful on particular occasions,
will not be found convenient for general purposes.

FROM an idea, that in a high state of moisture, the grass would not retain sufficient power, to move the wheel equably, it was throughly wetted, till it indicated extreme moisture, and while in this state, the wheel was drawn round, by laying hold of one of the threads: on releasing it, it instantly regained its former situation, with considerable force. The same experiment was made, in various other states of moisture, and it was always found, that the weights returned immediately to the degree from which they had been removed.

It would perhaps be an improvement, if a light wheel, of brass, or any other metal, not liable to rust, were used, instead of the ivory one; the grass having been found, by experiment, to be capable of moving a wheel of lead. The axis of the wheel might be made very small, and supported on Ys, which probably would add much to the sensibility of the instrument.

I HAVE as yet had no opportunity of comparing this with any other hygrometer; but it is simple in it's construction, not easily disorder'd, and should seem, from the extent of it's scale, to be particularly adapted to experiments, in which small variations of moisture are to be observed.

THE hygrometer has been hitherto an instrument, rather of curiosity than utility. But from most accounts that we have, it appears very probable, that this instrument has more to do with the phenomena of refraction, than either the barometer or thermometer. If then we could obtain a

number of observations of apparent altitudes, together with data from which to calculate the true, noting at the same time the hygrometer, barometer and thermometer, perhaps some law might be discovered, which might enable us to ascertain the quantity of the effect of moisture on refraction. It was with this view the hygrometer above described was constructed; but not having yet had an opportunity of obtaining the requisite observations, it is to be hoped, they may be made, by those who are in possession of time and instruments, equal to the undertaking.

Radialy, and is acknowledged to be thus called, from the Magas, who came from the Duipa of Sica, and feirled in the country, which was called before Clearal Pfrom which, its principal river, the Files, I called Cormbin by Anntag Magadha of Magadha is talled Militah in the Aria Aciera (A) The Objects, according to Mr. DeCvinshap coll in Mediate, and Media, and Kunners Tays, that the Pounde tell the commerce in which Sacra wis born, Marrier tay, or Country St Mar gotta. Arabian, and Perfore writers, and where the called in arreally for one of them, seconding to D'HERRELOT, fave that the Europerons of Tax dis refided in that country, Madad, Maded and Tadet are, I concerned the no I I an all Bearing of a collection and the land bearing to the the state of the first the position beauty at set he way the most northest and the ration of the District wills a certain to the other and bus not the whole at the in, Atial 32. Promotive stores in the after adult, in and Make. There appear house two different Countries and Transport they be a best ones. They Maryer, "one best offend of Theory and Theory." principle to regard time business and conflored and principle and princi to Marchard Magnet has The furnette grantisted in the reinfogerian saturally hear of the delight one and the first three of the first the first three first t

An Essay on the Sacred Isles in the West, with other Essays connected with that Work.

daily berevoeld BY CAPTAIN F. WILFORD.

might enable us to afcertain the Al YASSET the effect of moillere on re-

ANU-GANGAM, or the Gangetic Provinces, and more particularly of important grinisted to vin Magan HA.

file observations, it is to be hoped, they may be made, by those who are HE kingdom of Magadha in Anu-Gangam is the province of fouth Bahár, and is acknowledged to be thus called, from the Magas, who came from the Dwipa of Saca, and fettled in that country, which was called before Cicatà; from which, its principal river, the Fulgo, is called Cacuthis by ARRIAN. Magad'ha or Magad'ha is called Moktah in the Ayin-Acberi (1.) The Chinese, according to Mr. DEGUIGNES, call it Mokiato, and Mokito, and KEMPFER fays, that the Japanese call the country, in which Sacya was born, Magatta-kokf, or country of Magatta. Arabian, and Persian writers, and travellers called it Mabad: for one of them, according to D'HERBELOT, fays, that the Emperors of India refided in that country. Mabad, Mabed and Tabet are, I conceive; derived from Mubad, which, according to the learned HYDE, is a contraction from Mughbad, or the learned among the Mughs, or Magas; and the author of the Dabistan calls a certain feet of Brahmens, if not the whole of them, Mahbad. From Magadha they made also Maiet, and Muiet. These appear generally as two different countries; but I believe, they are but one. Thus Maiotta, one of the Comorro Islands, is called by former European travellers Maiotte, and Magotte, answering to Maied and Magad'ha. The same is mentioned in the Peutingerian-

<sup>(1.)</sup> Vol. 3d. P. 241. In the original tite and probably should be read Magata.

Tables, under the name of ELYMAIDE; which appellation, being probably obtained through the information of Arabian travellers, and merchants, feems to be derived, either from the Arabic EL-I-MAIED, the inhabitants of Maied; or from Almaied, in the same manner that they fay AL-TIBET, AL-SIN. Former European travellers mention a country called Mevat, in the Eastern parts of India, and which can be no other than Mabat: and instead of Modubæ in PLINY, we should, probably, read Mobeda, answering to the EL-I-MAIED of Arabian travellers. On the borders of Elymaide, toward the N. E. are the Lymodi mountains, near which were elephants in great numbers. Magad'ha proper is South-Bahar: but, when its kings had conquered, according to several Puranas, the whole of the Gangetic Provinces, (which they confidered afterwards, as their patrimonial demefnes;) Magad'ha became fynonymous with Anu-Gangam, or countries lying on the banks of the Ganges. The Gangetic Provinces are called to this day, Anukhenk or Anonkhek in Tibet; and Endcác by the Tartars; and they have extended this appel-· many wood wild flories at a related by s lation to all India.

IN Ceylon, according to CAPT. MAHONY, and in Ava, according to MR. BUCHANAN, the appellations of Páli, or Bàli, and Magad'hi are confidered as fynonymous, at least, when applied to their facred language; which I confider, from that circumstance, to be the old dialect of Magad'ha: which is called also the kingdom of Poli by Chinese writers. In India this name for Magad'ha is unknown: but its origin may be traced through the Purànas. Diodorus the Sicilian says, that Pàli-putra was built by the Indian Hercules, whose name, according to Cicero, was Belus, and in Sanscrit Bala, or Balas, the brother of Crishna, more generally called Bala-Rama and Bala-

DEVA. BALA-DEVA built three cities, for his fons, which he called, after his own name, Bala-deva-pattan: but they were better known, under the name of Bali-pura, and Maha-Bali-pura, pronounced Mavelivoram in the Deccan. One was on the Coast of Coromandel, fouth of Madras; the second, in the inland country of Beder, in the Peninsula; and the third, on the banks of the Ganges: this is acknowledged to be Raja-griha, or Raja-mahl, the royal mansion, or city; and which we must not confound with Raja-griha, the royal abode of old SAND'HA. It is true, that according to fome legends, current in the Deccan, the founder of Mahà-Bàli-pura, was BALI the DAITYA, an antediluvian: but other legends refer its foundation to BALA, the brother of CRISHNA: and the principal circumstances of these legends shew, that it is taken from the Puranas; and that it is the story of the wars of CRISHNA, and BALA, or BALA-RAMA with BANASURA, who lived in the countries bordering upon the Ganges; and whose place of abode is still shewn near Purneah; and about whom, many wonderful stories are related by the inhabitants. This BALL is then the same with BALA, the brother of CRISHNA: and in Lexicons, we find a certain ANGADA, faid to be called also BALI-PUTRA in a derivative form, or the son of BALA, or BALI; but in the Puranas, he is faid to be the fon of GADA, alfoa brother of CRISHNA, to whom he gave the district of Ghazipoor, the true name of which, is Gadi-pura, from GADA. The country of Canouge fell also to his lot: and from him, that city is also denominated Gádipoor or Gada-pura. VALI was also the name of a chief of the monkies, and his fon was equally called ANGADA. BANASURA built three cities, which BALA took, and destroyed; and then rebuilt, for his children, calling them after his own name Bali-pura; as GADA called his own place of abode Gadi-pura. The children of

BALA are not mentioned in the Puranas, and he is never called BALL there: but it is admissible, particularly in composition. He is also called HALA and HALI: and SALA-VAHANA is more generally denominated SALI-VAHANA. Palipotra, or Palibothra, according to DioDoRUS the Sicilian, was built by the Indian HERCULES; whose real name, according to CICERO, was BELUS, from BALA, or BALAS. His fon was better known under the name of BALI-PUTRA; as the founder of Paina, under that of PATALI-PUTRA, or the fon of the Goddels PATALI: ANGADA, his firname, was given to him from the country of Anga, which had been allotted to him. Thus Magadha takes its name from the fage MAGA, who fettled there. These three cities were to be destroyed by water, and this is true of Mahá-báli-voram near Madras, and of Páli-putra on the Ganges: the third is yet existing in the province of Beder in the Peninsula, and its name is Bali-griba or Báli-pura. It is more generally known under the name of Muzaffer-nagar. It is not far from Cundana-pura; where king BHISHMACA refided, and was the father of RUCMANI, CRISHNA'S legal! wife. Cundana-pura is generally mistaken for Báli-griha, on account of its vicinity; and, of course, supposed to have been built by BADA; and it is but lately, that I have been able to rectify this mistake. The descendants of this HERCULES, says DIODORUS, did nothing, which deferved to be recorded: in this agreeing with the Bauranies. The kingdom was restored to the posterity of old SAND'HA, who ruled there, for a long time, under the name of the VARHADRA-T'HAS, or children of VRIHADRAT'HA.

THESE are not then, the BALI-PUTRAS, or PALI-BOTHRI kings, who fate on the throne of Magad'ha, in the time of ALEXANDER, and his fuccessors. Before the conclusion of the great war, the conquerors gave

various districts to their friends. DURYOD'HANA gave the district, about Bhagulpoor, to his friend CARNA. CRISHNA, long before, had given the country, now called Bhoja pura, to his friend and relation BHOJA; and BALA-RAMA placed his family in the country about Raja-mahl: these were of course BALI-PUTRAS: but they could not be the BALI-PU-TRAS, OF PALI-BOTHRI kings, in the time of ALEXANDER, and his fucceffors. We are informed, in the Bhagavata, that king MAHA-NANDA assumed the title of Ball, and MAHA-BALI: confequently his offspring, who ruled after him, for a long time, were BALI-PUTRAS: the kingdom of Magad'ba was called the kingdom of Báti, Páti, and Poli: the dialect of that country is, as before observed, indifferently called Bali, Pali, and Magadhi in Geylon, and the Burman Empire, according to CAPTAIN MAHONY, MR. JOINVILLE, and MR. BUCHANAN. The city, in which the BALI or PALIPUTRAS refided, was of course denominated from them, Bali-putra, or Pali-putra; and by the Greeks Pali-bothra, and, in the Peutingerian Tables, Pali-potra. Their patrimonial effate was called Paliputra-man'dalam, the circle, or country of the Pali-putras. This simple, and obvious denomination, was ftrangely disfigured by PTOLEMY, who calls the city, Pali-bothra of the Mandalas; instead of faying that it was in the Man'dala, or country, of the Palibothras, or Bali-putras.,

Tradition fays, that MAHA-BALI built a country feat, on the banks of the Soane; round which, a small town was soon formed, and called MAHA-BALI-PURA, (or Mawbellypoor in MAJOR RENNELL'S Atlas), There, I was looking, at first, for Bàli-putra, or Palibothra. Patna, or at least a town called Cusuma-puri, was built, according to the Brahmàn'da, by king UDASI, grand father to MAHA-BALI, about 450 B. C. It was then called Cusuma-puri, or the flowery city, and Padma-vati,

or the city of the Lotos. Tradition fays, that the old fite of this city was at Phulwari, which, in the fpoken dialects, fignifies the fame with Cusumá-puri: but, the Ganges having altered its course, the city was gradually removed from Phulwari, to the present site of Patna; which was called also Patali-putra, from the son of a form of Devi, with the title of PATALI-DEVI, or the thin Goddels. Her fon was, in general, called PATALI-PUTRA, and the town PATALI-PUTRA-PURA. I have fhewn, in my effay on the chronology of the Hindus, that this city is called Patale by PLINY, It was called Patteali fimply, at the time of the invalion of the Musulmans, as it appears from Ferishta's translation by COLONEL Dow: and the inhabitants are confidered there as robbers, and, of course, ranked with those of Bhojepoor and Kuttehr. The last district, formerly called Castere, and now Cuttere, is a Purgunah, a little to the west of Benares; and the inhabitants behave very well now; those of Bhojepoor are far from being radically cured of their evil propensities. When the Musulmans took possession of Patna, many of the most obstinate robbers withdrew to Deryapoor, according to tradition, and were very apt to commit depredations occasionally; at least formerly. yd sinhounts on this chart hellen sitte of tympun dance)d

It is faid in the Bhagavata, that Maha-Bali refided at Padmavati or Patna: and one of his titles, in that Purána, is Maha-padma-Pati-Nanda, or Nanda the great Lord of the Lotos. Like Parasu-rama, he either destroyed, or drove out of his dominions, the remnant of the Cshettris, or Military tribe, and placed Sudras in their room. These were the Barons of the land, who often proved troublesome. Raja Bulwant Sing, the predecessor of Chet Sing, did the same, in the district of Benares, with the Zemindars, who represented the Cshettris

and even pretended to be really so: from an idea, that it was impossible to improve the revenues, arising from the land-tax, under their management. Maha-Padma, or Ball, was born of a woman of the Sudra tribe. According to Prolemy, the country of the Báli-putras extended from the Soane, beyond Moorshedábad, as far as Rangámatty; which he places in their Mandalam, or country, under the name of Oreophonta, as I have shewn in my essay on the chronology of the Hindus: in the west, he mentions Sambalaca, now an assemblage of small huts, on a sandy islot, opposite to Patna, called Sambulpoor, and Sabel-poor in Major Rennell's Atlas.

II. THE NUBIAN Geographer, with RENAUDOT'S two Musulman travellers, place together the countries of Haraz (Oriffa.) Mehrage, and Mabed or Mayed, Tafek or Tucha (now Dhaca,) and Mouga, or the country of the Magas, or Mugs, now Chittagong, Arracan &c. The country of Mehrage, fays D'HERBELOT, is placed, by some, in the Green Sea, or Gulf of Bengal; and by others, in the Chinese Seas: and the Gangetic provinces, at least Bengal, were known under that name, even as late as the fifteenth century; for it is called Maharajia, or Maarafcia by Nicolo DE CONTI, who visited that country. There were two countries of that name, which are occasionally confounded together: the first, at the bottom of the Green Sea, included Bengal, and other countries on the banks of the Ganges. The fecond comprehended the Peninfula of Malacca, and some of the adjacent islands, in the Seas of China. In these countries, the Emperors and Kings always assumed the title of MAHA-RAJA, even to this day. Their country, in general, was called Zipage or Zibaja, which is a corruption from Java, or Jaba, as it was called in the west; and was also the name of Sumatra, according to

PTOLEMY, who calls it Jábá-diu, and to MARCO PAULO: In the peninfula of Mulaca was the famous emporium of Zaba: Zabaja, in Sanscrit, would fignify those Zaba. The Empire of Zabaje was thus called, probably from its metropolis Zábá, as well as the principal islands near it. Zábá was a famous emporium, even as early as the time of PTOLEMY. It remained so, till the time of the two Musulman travellers of RENAUDOT, and probably much longer. It is now called Batu-Sabor, upon the river Johore, which is as large as the Euphrates, according to these two travellers; who add that the town of Calabar, on the coast of Coromandel, and ten days to the south of Madras, belonged to the MAHARAJA of Zábáje. The wars of this MAHARAJA, with the King of Al-Comr, or countries near Cape Comorin, are mentioned by the two Musulman travellers, in the ninth century: and, it seems, that, at that time, the MALAYAN Empire was in its greatest splendor. About two hundred years ago, the MAHARAJA of Bengal fent a powerful fleet to the Maldivian islands. The King was killed in the engagement, and the MAHARAJA's fleet returned in triumph to Bengal, according to DELA-VAL's account. Tradition fays, that the King of Lanca, which implies, either the country of the MAHARAJA of Zapage, or Ceylon, but more probably the first, invaded the country of Bengal, with a powerful fleet; and failed up the Ganges, as far Rangamatty, then called Cusuma puri, and a confiderable place, where the King, or MAHARAJA, often refided. The invaders plundered the country, and destroyed the city. This happened long before the invalion of Bengal by the Musulmans, and feems to coincide with the time of the invafion of the Peninfula by the MAHARAJA of Zapage. This information was procured, at my request, by the late LIEUTENANT HOARE, who was remarkably fond of inquiries of that fort; and to whom I am indebted, for feveral curious

historical anecdotes, and other particulars, relating to the geography of the Gangelic Provinces. It feems, that there was little intercourfe, probably none, between India, and China, in former times. The first notice we have of such an intercourse, is that an Emperor of China, called Vourt, fent his General TCHANG-KIAO, with a retinue of a hundred men, to visit the western countries, such as Khorassan, and Meru-al-nahar. There he procured some information about Persia; and feeing rich articles of trade from India, his curiofity prompted him to visit also that country. He began his travels 126 B. C. and returned to China in 115. That there was a constant commercial intercourse, between China and India, and even Ceylon, about the beginning of the Christian Era, is attested by PLINY (1). The same passage establishes also a regular intercourse, between the Roman merchants and China, at that early period. This fingular passage I shall insert here, as corrected by SALMASIUS: for PLINY's flyle is often obscure, from his fondness for quaint words, and expressions. A certain King of Ceylon sent once four ambassadors to the Emperor CLAUDIUS; and the chief of this embassy, was called RACHIAS, who being interrogated, whether he knew the Seres, or Chinese, answered "Ultra montes Emodos Seras quoque ab infis aspici, notos etiam commercio. Patrem RACHI & commeasse eò: advenis sibi Seras occurfare. Then Phiny fays, Catera eadem qua nostri negotiatores: fluminis ulteriore ripá merces positas juxta venalia tolli ab his, si placeatpermutatio." This I shall take the liberty to paraphrase in the following manner. RACHTAS answered, that the Seres lived beyond the Haimada, or Snowy mountains, with regard to Ceylon: that the Seres were often feen, or vifited by his countrymen; and were well known to them, through a commercial intercourfe. That his father had been there, and whenever caravans from Ceylon (and India I should sup-

<sup>(1)</sup> Pliny lib. 60. c. 220.

pole) went there, the Seres came part of the way to meet them in a friendly manner; which, it feems, was not the case with the caravans from the west, consisting of Roman Merchants. Then PLINY adds; as for the rest, and the manner of disposing of the goods, the Seres behave to them, as they do to our merchants. Rachia is derived from the Sanferit Racsha pronounced Rácha in the spoken dialects: and Ráchya, or Ráchya is a derivative from. It is the name, or rather the title, of one of the heroes of the Puranas. Another derivative form is RACSHITA, and is the name of a priest of Bu od HA in Ceylon, mentioned in the fixth vol. of the Afiatick Refearches; (1) where, according to the idiom of the spoken dialects, he is called RAC'HITA-BUDD'HA: and I suppose, that neither Racsha, nor Racshita can be properly used, but in composition. YARCHAS, the name of a Brahmen, mentioned in the life of APOLLONIUS, is probably a corruption from Rac'hyas. The Emperor CLAUDIUS began his reign, in the 14th year of the Christian Era; and the predilection of the Chineses for the people of India, and Ceylon was very natural. Thus we see, that the people of that island traded to China, at the very beginning of our Era, and by land. There can be no doubt, that they went first by sea, to the country of Magadha, or the Gangerick provinces; where their legislator Budo'HA was born, and his religion flourished in the utmost splendor. There, they joined in a body, with the caravans of that country, and wentto China, through what PTOLEMY, and the author of the Periplus, call the great route from Palibothrato China. It was in confequence of this commercial intercourse, that the religion of Budd'na was introduced into that vast empire, in the year 65 A. C. and from that Era, we may date the constant, and regular intercourse, between Magad'ha and China still-the extirpation of thereligion of Bund'HA, and the invalion of the Mululmans.

The account given, by the fon of RACHIAS, has nothing very extraor,

<sup>(1)</sup> p. 450,

dinary in it, when the whole is confidered in a proper light; and it fhews the earelessness of the Greeks and Romans, in inquiries of that nature. The regard the Hindus have for the seven Rishis, or the seven flars of the great Bear, and which they faw fo much above the Horizon, made them often look up to them, as well as to the Pleiades. From this circumstance, the Romans foolishly conceived, they never faw them before. They also often mentioned the star Canopus, for which the Hindus entertain the highest respect. The ambassadors of Ceylon were surprised. to fee the Romans confider the East and West, as the right and left of the world; and declared it was otherwise in their own country; and that the fun did not rife in the left, nor fet in the right, according to their mode of reckoning. For the Hindus fay, that the East is before, and the West behind; and the shadow of bodies must have been affected in the same manner. With respect to the moon's course, there is the bright half, and the dark half; which, in India, constitutes what is called the day and night of the Pitris, The day is reckoned, from the first quarter to the last; and this is called the bright half, or the day of the Pitris; the dark half is from the last to the first quarter of the next moon; and this conflitutes their night. When PEINY fays, that, in their country, the moon was feen only from the 8th, to the 16th, he was millaken; he should have faid, that the bright half, or day of the Pitris, began on the eighth day, and lasted fixteen days, including the eighth: and then began the dark half, or night of the Pitris; and, from these expressions, misunderflood, the Romans concluded, that the moon was not to be feen, in their country, during the dark half-bal C. and flad are gaing the vent that vall empire, in the year 65 A. C. and flad are half-ball and the country, during the dark half-ball and the year for the year for

III. Acording to Mr. Decuiones, the king of Tientfo, or India, fent men by fea to China, carrying presents to the Emperor, in the years 159 and 161. The Chinese call India Shinto, and Into, Sind, and Hind:

they call it also, Tientso, and divide it into five parts: middle Tientso, with North, South, East, and West Tientso. Mr. DEGUIGNES says, they called India Mokiato, and Polomuenkoue or country of Polomuen; Mokiato, the Magatta of the Japanese, is Magad'ha, including all the Gangetic provinces; and it was called Polomuen, from the famous Emperor Pull-MAN, or POLOMAN, called by DEGUIGNES, Houlomien and Holomiento. The Chinese gave the name of Magad'ha to all India; because their knowledge of that country, and their intercourse, was for a long time confined to Magad'ha, which is also called Anu-Gangam; distorted, by those of Tibet, into Anonkhenk, and Anakak by the Tartars, who have no other name for India. Thus, in the Empire of the Burmahs, they call India Calingáhárit, from Calinga, or the Peninfula of India, with which they are better acquainted: harit in their language, and harita in Sanferit, fignifies country; and the whole compound, the country of Calinga. The metropolis of India was fituated on the banks of the Kengkia, or Hengho, the Ganges. This river, fays the same author, they call-also Kiapili, because, I suppose, it enters India through the pass of Capila, called, in the the following year, Tarrsone fent an embelly life of TIMUR, Kupele.

THE name of the Metropolis was Chapoholo-ching, Kiusomopoulo-ching, Potoli-tsching, answering to Patali, Cusumá-puri, the well known names Justus-no of Patna. Chapoholo answers to Samalla, or Sambala, now Sumbulpoor, written also Sabel-poor, and close to Patna: and is obviously meant for that city, by the Chinefe, as well as by PTOLEMY.

ANOTHER Chinese name for it, is Cutukilopoulo, which I must give up,

unable to reduce it to its original Sanfcrit, or Hindui standard.

In the year 408, YUEGNAI king of Kiapili, that is to fay, of the countries bordering on the river Kiapili, or Ganges, fent emballadors to Caulatypas barely mentioned by the Pouranies; and they are, probably,

China. He was a follower of Budd'ha, and his Hindu name was probably Yajna.

In the year 473, the king of the country of Poli fent also embassadors to China. The kingdom of Poli is that of Magad'ha; for Magad'ha, and Páli, or Báli, are considered as synonymous, by the people of Ceylon, Siam, and the Burmahs.

In the year 641, the Indian king of the countries, belonging now to the Great Mogul, and included in the Mokiato or Magadha Empire, fays Deguignes, fent embaffadors to China. The following year, the Emperor of China fent embaffadors to him. His name was Houlomien, Puliman or Loma, and he was greatly surprised at it. There the Chinese learned, that the Hindus called their country Moho-chintan, for Mahá-china-schina schina in the Peninsula, this word is pronounced Macáchina.

In the year 647, the Emperor of Mokiato, or Magad'ha sent again embassadors to China, as well as the king of Nipolou or Nepal. In the following year, Taitsong sent an embassy to the king of Mokito, or Magad'ha. In the mean time, Houlomien died, and the whole country was thrown into consusting the was a great warrior, and reduced all India, in the year 621, under his yoke. The name of his family was Kielitie; which, for a long time, had been in possession of the throne. Puliman was the last of the kings of the royal samily of And'hra. This samily is considered, in India, as a spurious branch; which circumstance is fully implied, by the appellation of Caulateya in Sanscrit, or the offspring of the unfaithful woman, and from Caulateya is probably derived the Kielitie of the Chinese. There is a Dynasty of Caulateyas barely mentioned by the Pauránics; and they are, probably,

the same with the And'HRA-JATICAS, and the KIELITIE of the

THE AND'HRA kings, on the banks of the Ganges, were famous all over India, and in the west: for the And'hra tribe, or family, is placed to the north of the Ganges, by the compiler of the Peutingerian Tables, under the name of André-Indi, or Indians of the And'hra family, or tribe. After Puliman, the And'hra Bhrityas, according to the Puránas, or the servants of the And'hra kings, usurped the Government; and the Chinese Historians take particular notice of this circumstance.

It is declared, in feveral Puránas, that Maha-nanda, and his fuccessfors, resided at Padmávati, or Cusumápuri, by which Patna is understood. But these are only epithets, and not the real name of a city: and always given, by poets, to savourite towns. Thus Burdwan was called Cusumápuri; and Rangámatti, near Moorshedabad, likewise; as well as the town of Hustinápoor. It is remarkable, that, of the cities in India, once samous in the writings of the Greeks and Romans, sew now are known under these names in India. Thus Taxilla is a name unknown in India; and it was only after perusing the Puránas, for many years, that I sound it barely mentioned, in one or two of them. It is the case with Tagará, the name of which is only sound, in a grant, some years ago discovered at Bombay.

The kings of Magadha certainly refided very often at Patna, and latterly they forfook intirely Báliputra; probably owing to the vicinity of Gaur, the Rájáhs of which, when powerful, could not but prove troublesome neighbours: besides, the continual encroachments of the

Ganges, and the gradual, but conflant, decay of the metropolis, occafioned by them, naturally obliged the kings, to look out for a more
agreeable fituation. Of the time of the total subversion of Báli-putra,
or Rája-griha, we cannot form any idea: but there is every reason to
believe, it took place at a very early period; for Pali-bothra is not mentioned in the Peutingerian tables: and Mágad'ha, or Patna, is pointed
out, as a capital city, under the name of Al-mágad'ha, or Eli-maide, Almaied.

carding to the Carwage or the fervants of the As alas as kings, alasped IV. THE trade of Pali bothra, and of the kingdom of Magadha, in its. days of splendor, was astonishing; and is attested by PTOLEMY, ARRIAN in his Periplus, and the Peutingerian tables. The same is attested by Chinese historians, and the two Mohammedan travellers. From Pali--bothra to the Indus, there was the Royal road; and the distances, all along. were marked with columns. There was another road, leading from Baroche, to Elymaide, Al maied, Al-muiet, and Al mujiat, or Patna, ealled also, in Sanscrit books, Magad'ha, as well as the country. This is: mentioned in the Peutingerian tables, and the distance marked 700, which I take to be Brahmens coss, equal to 856 British miles. In the Peutingerian tables, Baroshe is called Paricea, and the road to Elymaide leads through a place called Nincilda; the true name of which, I take tobe Nila-cunda, the Blue pool, or rather the pool-cunda, dedicated to NILA-. CANTESWARA Or Iswara with the blue neck. From Al-maied, there is. another road, leading through the Burman Empire, Siam, and ending at Calippe, now Columpe, in the kingdom of Cambodia. According to the Peutingerian tables, this road went from Patna, first to the country of Colchi, called Chalcitis, or Chalcis by PTOLEMY; and the distance marked is 625, which, being supposed to be coss, are equal to 742 B. miles. Near the Colchi country, in the tables, are placed the Sindi, equally,

mentioned by ProLEMY, and also a place called Pifauta, probably the modern Pitshiai. Then, from Colchi to Thimara, probably the Tomara of Procemy, and the distance is 450 coss, or 565 B. miles. Then to Calippe, or Columpé, 220 cols, or 270 B. miles. This route was certainly known to Prolemy; from whom we may collect a few more particulars. From Palibothra, this route went towards the east, to Sagoda, Authina, Salatha and Rundamarcotta. Sagoda is Sagow, on the western bank of the Burramposter, and in Lat. N. 24° 35, according to MR. BURROW, in the fourth Vol. of the Afiatick Researches. This I mention, because it is not noticed in MAJOR RENNELL'S Atlas. Sagoda is the form of the possessive case in the western parts of India; and generally used instead of the first case, by the Greeks formerly, and modern travellers of the two last centuries. Athina is Eetenah, to the westward of Azmerigunge: NONNUS calls it Anthené, and takes notice of its flowery shrubs (1): thence to Salatha, or Silhet. The next place is Randamarcotta, which I suppose to be Ava, the real name of which is: Amara-pura: it is called also Rád'hun-pura according to Col. Symes: and Randamarcotta. appears as a compound of both. Amara fignifies the immortal gods: and Rad'han, or Rad'ha, are rendered, in Lexicons, by (Amalaci) pure, (prápti,) complete, perfect, resplendent. Thus Rádhámmara-pura, or Radhamara-pura, will fignify, the city of the pure and immortal gods. Instead of Radhámra-puras, we may say Rádhámara cota, or the fort of the pure and, immortal gods. Amar-pur, Amar-cote, Amar-ganh are generally used, the one for the other, in India. Before it became the capital of a vast empire, and in the beginning, it was probably called Amara-cote in India: but now; it would be improper to fay Amara-cote, unless it were fanctioned by usage. The distance of Randamarcotta from Salatha, in PTOLEMY, corresponds pretty well: but

<sup>(1)</sup> Nonn. Dionys. lib. 26. v. 87.

the proportional distances seem to point to some place much nearer. Randamar-cotta is obviously the name of a city: but, from Ptolemy's context, it was also the name of an extensive country, the capital of which is called Nardos; perhaps from Aniruddha, or from Narda: for there are, in India, places called Anurodgur, and Naredcote. Nardos, or Nardon, is perhaps a corruption only, from Rádhán, the old name of Amarpuri, according to Col. Symes. As the Spike nard does not grow in the countries to the east of the Burrampooter, according to Mr. Buchanan's information, no alteration is to be made in this passage from Ptolemy.

FROM the metropolis of China, fays Prolemy, there was a road, leading to Cattigara, in the same country of Cambodia, in a S. W. direction.

THE Royal road, from the banks of the Indus to Palibothra, may be easily made out from PLINY's account, and from the Peutingerian tables. According to DIONYSIUS PERIEGETES, it was called also the Nyssan road, because it led from Palibothra, to the samous city of Nysa. It had been traced out, with particular care; and at the end of every Indian itinerary measure, there was a small column erected. Megasthenes does not give the name of this Indian measure, but says that it consisted of ten stades. This, of course, could be no other than the astronomical, or Panjábi coss; one of which is equal to 1.23 Brirish mile.

PLINY's account of this Royal road is, at first fight, most extravagant; and of course, inadmissible. But on considering the whole, with due attention, we shall immediately perceive, that in the original, from which it was extracted, it consisted of two distinct accounts, or reckonings: the first was, that of the intermediate distances, between every stage; and the second, contained the aggregate sum of these distances, for every stage. PLINY, whose inaccuracy is notorious, selected out of them, only

fent the whole, arranged in the following manner.

AUD WES

20 01 NOTHER TENANGET PARTY AND THE PARTY AN	D Mil	
From the Indus and Peucolais,		
To Taxila, the there is the man - it is	60	or gathroom
Hydaspes,	omitted	120
Acefines,	ditto	omitted
Hydraotes,	ditto	ditto la ui
Hyphafis,	- 49	390
There ended ALEXANDER's conquests,	SAME NUMBER	Take Dalik
and a new reckoning begins -	1 : 2 0 : 0	ANGELS TO 125
or and tells us, ciget from and and are	168	M MILLIONGO
the state of the same will be the larger	National Street	THE DESCRIPTION OF
Jomanes,	- 168	omitted
Jomanes, Some add 5 miles,	Ser Sand	omitted
Some add 5 miles,	112	ditto
Ganges;	112	Comprise.
Ganges, Rodapha, Calinipaxa,	112	ditto
Some add 5 miles,  Ganges,  Rodapha,  Calinipaxa,  fome fay,  Calor of habits 265	112 119 167	ditto 325
Some add 5 miles,  Ganges,  Rodapha,  Calinipaxa,  fome fay,  Calor of habits 265	112 119 167	ditto and
Some add 5 miles,  Ganges;  Rodapha,  Calinipaxa,  fome fay,  Conflux of the Jomanes with the Ganges,  they generally add 13 miles, (638)	112 119 167 omitted	ditto 325
Some add 5 miles,  Ganges,  Rodapha,  Calinipaxa,  fome fay,  Calor of habits 265	112 119 167 omitted	ditto 325

HERE we have, first, 390 miles, from the Indus, to the end of the conquests of ALEXANDER: and thence, 638 miles, to the conflux of the Jumna with the Ganges; making in all 1028 miles, for the distance from the Indus to Allahabad. These distances were given in the original in stadia, which PLINY reduced into miles, at the rate of eight to one mile: and, by turning again his miles into stadia, we may easily find out the original numbers. Thus, his 1028 miles give 8224 stadia, at the

rate of eight to one mile. Again, these 8224 stadia, divided by ten, give 822.4 Cos, or 205. 6 Yojanas, equal to 1012 British miles: and Major Rennell, after a laborious and learned investigation, finds 1030 miles between the Indus and Allahabad, through Dehli. But the royal road, according to Pliny, from the context; and more positively, according to the Peutingerian Tables, passed through Hastinapúr; which gives an increase, between the Indus, and Allahabad, of ten miles nearly, making in all 1040 miles.

MEGASTHENES gives twenty thousand stadia, for the distance from the Indus to Palibothra: some read only ten thousand: both numbers are obviously wrong; and STRABO tells us, that fome, as PATROCLES, reckoned only 12000; and this was the true reading in MEGASTHENES' itinerary. These 12000 stadia are equal to 1476 British miles. Now the distance, from Allahabad to Sancri-guli, commonly called Sacri-guli, or the narrow pass, and answering, I should suppose, with regard to its diftance from Allahabad, to the western gate of Palibothra, several miles to the north, is 439 miles; which, added to 1040, give 1479 miles, for the whole distance, from the Indus to Palibothra, The numbers, in PLINY, give only 11624 stadia, instead of 12000; and there is a deficiency of 376 stadia, or 46 B. miles; part of which must be added to 425, the diftance from Allahabad to Palibothra, and the rest to the first sum of 390 miles in PLINY, which is certainly too short: and instead of CCCXC, in the text, I should propose to read CCCCX, or 410: such transpositions of numeral letters are not uncommon in PLINY's text. This was the extent, fays that author, of ALEXANDER's conquests, from the Indus toward the East. We must not suppose, that they extended no surther than the Hyphafis, which he croffed; for Phegelas, or Phegeus, was

king of the country beyond the Beyah, and as far at least as the Setlej, if not as far as Serhind. He submitted to Alexander with a good grace, and was graciously received by him. Phegelas was probably the name of the city he lived in; which is called to this day Pag-warah, or Pag-wala, Phag-wara, and Phag-wala, between the Beyah and Setlej: Ser-hind is neither a Sanscrit, nor Hindui denomination: but it is an Indo-Scythian compound, and signifies the limits, or borders of Hind. The Cathrei, or Chatars, were a Scythian tribe, as we may safely conclude from their seatures, and manners, in the time of Alexander; and even to the present day. The word Ser, or Sereh, is used in that sense in Biducshan, and the adjacent countries: and Ser-hind was probably the limit of the conquests of Alexander, though he never was there himself; as well as of the Persian dominions in India; that part of which was called Hodu, according to the book of Esther: and that it was once so called, is attested by the natives to this day, who say, that it was formerly called Hud.

As I intend to write, expressly, on the marches of ALEXANDER through India, (having all the materials ready for that purpose); I shall, now, content myself with exhibiting an attempt, toward the correction of the various accounts of this samous Royal, or Nyssan road, from PLINY, the Peutingerian Tables, PTOLEMY, and the anonymous geographer of Ravenna.

FROM the ferry of Tor-Boileh, or Tor-Beilam, (or the black Beilam,) on the Indus, to the westward of Peucolais, (now Pucauli, or Bir-wala, called Pirhola, in the maps, and Parhe in the Peutingerian Tables,) to Taxila, on the river Suvarna, (now the Sone, the Soamus for Soanus of Arrian). It is called, in Sanscrit, Tacshila: and its true name is Tacsha-Syala, according to the natives, who call themselves, Syalas. Its ruins

extend over the villages, called Rubbaut, and Pekkeh, in Major Rennell's map of the countries between Delhi and Candahar. The Royal refidence is pointed out, by the natives, at a small village, near the river, and is called Syala, to this day; and is a little to the north of Rubbaut. Tac-Syala having been ruined, at an early period, by the Musulmans; it was rebuilt afterwards, under the name of Turruk-pehri; and a Perganah of that name is mentioned in the Ayin-Acberi. But this last has met with the same fate as the former.

Thence to Ratas, or Ruytas, called Rhodoes by Nonnus, in his Dion fiacs, who fays, it was a firong place. It is called Rages, for Rates, in the Peutingerian Tables, and in the Puranas, its name is Hridu, and that of its inhabitants Hridan.

which ought to join here. It comes from Arni, Aornos, or Attock, and goes to Pileiam, (which appears to be transposed; or Ec-Bolima, from Ac-Beila, or Ac-Beilam, or the white Beilam, sands or shores, and now called Hazru).

Bucephalos, near which is a famous peak, called the mountain of the elephant, by Plutarch. (1.) Its present name is Bal, Bil, or Pil, which,
in Persian, signify an elephant. It is famous, all over the western parts of
India, for its holiness, and its being the abode of numerous penitents;
the chief of whom, as well as the deity of the place, is called Bal-Nath
or Bil-Nath. It is generally called Bal-Nath-Thileh, or the mountain of the Lord Bal: another name for it is Joghion-di-tibbi, or the
tower of the Joghis.

<sup>(1)</sup> Plut. de flum.

THENCE, to the Acefines or Chandra-bhága, and the town of Spatura of the Peutingerian tables, called Simtura by the anonymous geographer, and probably the same with Sadhorah. There appears to be a transposition in the numbers expressing the distances.

THENCE to the Hydraotes, or Ravi, (the Iravati of the Puranas,) and the city of Laboca or Lobaca, mentioned by Ptolemy; and which is the present Lahore. Its true and original name is Lavaca or Labaca, from Lava or Laba, the son of Rama; and its present name is derived from Lava-wara, the place of Lava or Laba. Its distance from Sangalā in Ptolemy, with its name, have induced me to suppose, that it is the same with Lahore, which is 53 miles to the east of the extensive ruins of Sangala, so called to this day: and the true pronunciation is Sangala not Sangala. There are two places in Ptolemy, one called Laboca and the other Labaca; for the other is not conformable to the idiom of any of the dialects in Inaia.

THENCE to the Hyphasis, and asterwards to the Zadadrus, (the Satodara or Satadru of the Puránas, or with 100 bellies or channels;) and to the town of Tahora in the Peutingerian Tables (now called, with a slight alteration, Tehaura, and in the Puránas, Tihotra and Trigarta; there SE-MIRAMIS, Or SAMI-DEVI, was born).

THENCE to Ketrora, in the same tables, for Chatri-wara, or Chetri-wara, the metropolis of a powerful tribe of Chetris, or Chetris, who lived in a beautiful, and woody country. The samous Lacki Jungle, or forest, is what now remains, of these charming woods and groves. They are called Cetri-boni, by PLINY, with the epithet of Sylvestres, or living in forests: and Chatrivana, in Sanscrit, and Chetri-ban, in the spoken dialects, signify the forest of the Chetris, Chetri-wara, or

Cetrora, is now Thanelifar; in former times, the metropolis of these Chatris.

THENEE, to the Jumna at Cunjpoora, and to the Ganges at Huslinapoor, or Hastina nagara called in the West, and in the Ayin-acberi, Wustnaur, for Hastin-nora. It is the Bacinora, of the Peutingerian Tables, the Bactriana of the anonymous geographer, and the Storna of PTOLEMY .. In the Greek original, it was written BACTINOPA, Bastinora, altered afterwards into BACINOPA, and BACTPIANA, Bafinora, and Baftriana ;: and the latter was millaken for Bactriana. Indeed the Greeks could hardly write Wullnore, or Wullinare, otherwise, than OYACTINOPA, or BACTINOPA, Quastinora, Wastinora, or Bastinora: they chose the latter. Hastina-nagara, commonly called Hustina-poor, is about twenty miles. S. W. of Darinagur, on a branch of the Ganges, formerly the bed of that river. There remains only a finall place of worship; and the extensive fite of that ancient city, is entirely covered, with large ant-hills; which have induced the inhabitants of the adjacent country to suppose, that it had been overturned, or destroyed, by the Termites. In the Peutingerian-Tables, we are prefented with a route, leading, from Huftinapoor, into Tibet: the first stage of which, is Arate, called Heorta by PTOLEMY, but transposed by him. It is Haridwar, or Hardwah, as it is corruptly pronounced by many: and in Arate and Heorta, we can retrace the original name Hartoa, or Hardwab. The second stage is Pharca, called Paraca by PHILOSTRATUS, in his life of APOLLONIUS; and placed by him in the mountains, to the north of the Ganges. Its present name is Pragh, often pronounced Paragh, generally with the epithet of Deva, or Deo, Deo Pragh, or the divine Pragh. It is in the country of Sri-nagar, on the banks of the Ganges, and is a famous place of worship.

On the road from Hustinapoor to Allahabad, PLINY places the town of Rodapha, called Rapphe by Prolemy. Its present name is Hurdowah or Huldowah; for both are equally in use.

THE next stage, according to PLINY, is Calinipaxa, the true name of which was Cálini-basa, implying its being situated on the Cálini, a river which retains its ancient name to this day: but the town is now unknown.

THE next stage is Allahabad, called the town of Ganges, (or Gangapoor,) by Artemidorus. All the intermediate distances, in Pliny, are erroneous, and inadmissible: thus he tells us, that from Rodapha, to Calinipaxa, there are 168 miles: but according to others 265; whilst some reckon 500. The distance, assigned by him, between the Sutluj and Jumna, amounts to 336 miles, which is a most gross mistake. The half, or 168 miles, reckoning from Tahora to Cunjpoora, is pretty near the truth.

FROM Allahabad to Palibothra, the road, it seems, did lie along the southern bank of the Ganges: and in Ptolemy, we find the following places. From Allahabad to the river Tuso, now the Tonse: and, eighteep miles from its conflux with the Ganges, in a S. W. direction, he places a town called Adisdara, probably the same with Attersar, or Attersarour in the same place; and, about one mile and half to the north of the Tonse. Thence to Cindia, now Cauntee, on the banks of the Ganges, and almost opposite to Goopygunge. But this place is out of the direct road: though it might not have been so formerly, on account of the continual encroachments, and shiftings of the Ganges.

THE next is Sagala, now Mirzapoor, and connected with another called Sigala, or rather Sagala, now Monghir. The prefent Sanfcrit

name of the former is Vind'hyavafini, from the Goddess of that name, who is worshipped there, and who resides in the Vind'hya, or Bind mountains, as implied by her name. The common title of this tremendous deity, is BHADRA-CALI, or the beautiful CALI; though the by no means deserves that epithet. This place is supposed to communicate with the other Sagala or Monghir, through subterraneous passages, opened by lightning; which funk under ground at Vind'hya-váfini, and re-appeared at Monghir, at a place dedicated also to the same Devi. though little frequented. This accounts for these two places having the same name in PTOLEMY; though these names are now entirely unknown to the Hindus. But BHADRA-CALI, and SU-CALI are perfectly fynonymous: the latter, however, is feldom used, as an epithet of that deity, except when persons, either male, or semale, are denominated after her; then they never use BHADRA-CALI, but they say Su-Call. Mirzapoor, is sometimes called the Schan, or place of BHADRA-CALI, which appellation is distorted into Patrigally, in the voluminous treatife of the religious ceremonies of different nations.

The other Sagala, or Monghir, is called Mudgala, in Sanscrit, as I am told, in a derivative form from Mudga, its name in the imperial grant found there: for Mudga-giri fignifies the hill of Mudga. In the Deccan, Ptolemy mentions two places, nearly at the same distance from each other, one called Petirgala, and the other Modogulla. Madighir, or rather Modu-gir, is a very common name, for places, in the Peninfula, and also in other parts of India; as Madugar, near Jaypoor; Matgar, near Cotta, &c. The first part of this compound is found, in composition, with pura city, giri hill, griha fort, vana, or ban forest, &c. thus we have Modu-pura, Modugiri, Modu-ghir, Modu-vana, or Modu-ban, &c.

That Monghir was called Mudga-giri, Mudgala, and Sagala, is certain; and that Mirzapoor was denominated, equally, BHADRA-CALL, or Petrigally, and Sogala, is equally fo; like the two places in the Deccan, called Petir-gala, and Modogulla, by PTOLEMY. In all the names of places, in which the word Modu is introduced, this word is uniformly interpreted pleafing, charming, from the Sanscrit Moda: thus Modu-ban fignifies the beautiful grove: Modwa, the name of feveral rivers, implies their being delightful. Thus Moda-giri, or Modu-gir, in the spoken dialects, fignifies the beautiful hill; Modu-gali, the beautiful pass: thus Sancri-gali, now Sacrigulley, implies the narrow pass. The word gali is not Sanscrit; but Sancri is derived from Sancirna: and innumerable instances might be produced, of compound names of places, and even of men, in which one word is Sanfcrit, and the other borrowed from the spoken dialects. In this case Modu-gali, Bhadra-gali, and Su-gali, imply equally the beautiful pass, between a projection of the hills and the Ganges. Several places in India are denominated Su-golley, Sugouley, and Sucouley, from their being fituated near a pass, either through mountains, or almost impervious woods. PLINY seems to suppose, that the Royal, or Nyffean road passed throuh Pacli, or Peucolais; but this is highly improbable. It went directly through the ferry of Aornas or Attack-Benares, to Nyfa. Aornos, or Avernus, is probably derived from the · Sanscrit Varanasa, pronounced Benares, in the Spoken dialects. Father MONSERRAT, who accompanied the Emperor ACBAR, in his expedition to Cabul, Tays, that that Emperor paid the greatest attention to the measurement of the roads, during his march; and that, instead of a common rope, he substituted Bamboos, joined together by iron links. He then fays, that there were twenty fix and one fourth, of these Cos, to received, from leveral natives, who had travelled that way. The mod

one degree: each Cos confisted, of course, of 13911. 77 feet. of 4637.

Segala, is equally for like the two place V. FROM China, fays PTOLEMY, there were two roads: o adding to Ballra; and the other to Palibothra. The author of the Periplus has strangely disfigured this passage, or a similar one, from some other author. He fays, that wool (I suppose some particular kind of it), and filk, were brought by land from China to Baroche, through Bactra, or Balkh: and then, down the Ganges, to LIMYRICA. He certainly meant, that the goods were fent, part to the west, through Balkh, and part to Palibothra; and from the latter, they were carried down the Ganges, and by fea, to LIMYRICA: this was, I suppose, the original meaning. The country of LIMYRICA is that of Muru, in the peninfula; called alfo, though improperly, Mura, Mur, and Muri; which, in a derivative form, becomes Muruca, and Murica; from which, Arabian travellers made Almurica, and the Greeks LI-MYRICA. In Sanfcrit, but more particularly in the spoken dialects, the derivative is often used, for the primitive form. Thus they fay, Bengala for Benga: and for Lar, they faid, Larica, a diffrict in Gurjarat. With regard to this track, from Magad'ha, and Palibothra, to China, the Peutingerian Tables afford us confiderable light. From the Palita, the Bolita, and Cabolita of PTOLEMY, now Cabul, there was a road, leading through the mountains, north of the Panjab, and meeting another road from Tahora, in the same country, (still retaining the same name, ) at a place called Aris, in the mountains to the north of Hari-dwar. These two roads are frequented to this day; and they meet at a place called Khama-lang, a little beyond what is called the Eyes of Mansarovar; which are three small lakes, and to the fouth of Bindu-Sarovara, or Lancá lake. This information I received, from feveral natives, who had travelled that way. The road

to Aspacora, or Asparaca, a place in Tibet, mentioned by Prole-MY: We it met with another, from the Gangetick Provinces; and paffing through Parthona, probably now Kerten, or Kelten, with the epithet of Ping, from which is probably derived the Paliana of PTOLEMY. This ad, in the tables, ends at Magaris, corruptly for Thogaris, or The and, in PTOLEMY; and now Tonker, near Laffa, on the river Calchew, ( called, in the Peutingerian Tables, Calincius ). The mountains to the north, are called by PTOLEMY, Thaguri, and the inhabitants of the country, Itaguri. These famous mountains still preserve their ancient name, being called Tingri to this day. The road, from the Gangetick Provinces, is represented as coming from a place called Carfania, near the Ganges; and probably the Cartasina of PTOLEMY, now called Carjuna, near Burdwan. Between this, and Aspacora in Tibet, the tables place a town called Scobaru, which strange and uncommon name is still preserved, in that of Cucshabaru, ( in the maps Cocsabary, ) near Jarbarry, to the north of Dinagepoor. Cucshabaru is the epithet of a giant, living in the mountains to the north of India. His real name was ST'HULODARA, and, from his infatiable and ravenous voracity, he is furnamed Cucshábara, and he is often mentioned in the Puranas. This was probably the rendezvous of the Caravans, from Taprobane, or Ceylon; which, according to PLINY, went by land to China. RACHIA, the chief embaffador of the king of Ceylon, to the Emperor CLAUDIUS, faid, that his father had gone by land to China. from their features, much have b-

ABBY GROSIER, in his description of China, says, that at Pou-eul, a village in Yunnan, on the frontiers of Assam, Ava, and Laos, people resort from the adjacent countries: but that the entrance is sorbidden foreigners, who are permitted to approach, no nearer than the

bottom of the mountains. There they exchange their goods for Tes, the leaves of which are long, and thick. They are rolled up into balls, fomewhat like Tobacco, and formed into masses, which are carried into the adjacent countries, and even to this day to Silhet.

This trade was carried on, exactly in the same manner, 1600 years ago, according to ARRIAN's periplus. On the confines of China, fays the author, there is a nation of men, of a thort flature, with a large forehead, and flat nofes. They are called Sefata, (and by ProLEMY Bafada.) These come, every year, to the frontiers; not being permitted to enter the country. They make balkets of certain leaves, as large as those of the vine, which they few together, with the fibres of bambus, called betri; and fill them with the leaves of a certain plant, rolled up into balls, which are of three forts, depending on the quality and fize of the leaves; and are of course denominated balls of the larger, middle, and smaller fize; and are carried all over India. Petri could not be the name of the bambus, but of the leaves, called in Hindui pátrá. These leaves are probably those of the Dhac tree, (1) used all over India to make baskets, and made fast together, with skewers, from the fibres of the bambu, or other fimilar plant. These Basadæ were, in my opinion, a wandering tribe, still called Bifati, (2), who live by felling small wares, and trinkets; for which purpose, they constantly attend markets, fairs and such places, where they think they can dispose of their goods. These Bifati, or Befada, from their features, must have belonged to some of the tribes living on the eaftern borders of Bengal, whose features are exactly such; as defcribed by the author of the Periplus. MR. BUCHANAN mentions two

refort from the adjacent countries: out that the abnormand by by

oils ( a ) See Affet, Refearches Vol. 7th. p. 466. Im seq one odw , stongional of

place called Palé, perhaps Pou-eul, and Palaung, in the mountains to the N.E. of Ava, where they pickle the Tea leaves, used all over the Burn to Empire.

The is another route, in the Peutingerian Tables, leading from Tah Tabaura, in MAJOR RENNELL's map,) to Elimaide, or Patna. From hora to Palipotra, 250 cos: to the Ganges 500: to Elymaide, 250: in all 1000 cos, or 1228 B. M. Here we see, that Palipotra cannot be, either Patna, or Rajamahl: besides, the distance is too great, in a direct line. There are three towns, thus called, in India: the first, or Pali-butra near Cabul, called Palpeter by DANVILLE, is unconnected with this route. The second is Bali-putra, or Rajamahl, which is too far to the eastward. The third is Pali-putra, in the interior parts of India, and is now called Bo-Pat, for Bhu-Pala. It is mentioned by PTOLEMY, under the name of Siri-Palla for Sri-Palli, This, I conceive to be the Palipotra, of the Peutingerian Tables, and accordingly propose the following correction. From Tahora to Palipotra, or Bopaul, 500 cos, or 630 B. M. Thence to Elimaide, or Patna, 500 cos also. Between Tahora and Palipotra, the route passed near the mountains of Daropanisus, which are those of Dhar. Between Palipotra and Patna, there is a stasion ad Gangem, or near the Ganges: this station, I take to be Allahabad, called the town of Ganges, in ancient authors: but then the distances, either according to our correction, or without it, do not agree fo well; and probably there is a transposition.

I HAVE mentioned before, the constant intercourse, both by sea and by land, between the kingdom of Magad'ha and China, on the authority mese History; and their trade, to an island and kingdom, called Foxnow, the eastward of Siam, during the third and sourth centuries. This

was probably a Malay kingdom: but we cannot ascertain its fituation. It feems that some Malay Emperors, and kings, as those of Zapage, and Founan, did what they could, to introduce trade and learning, into their dominions: but their exertions proved ineffectual; at least the were not attended with much fuccess; and their subjects soon relapsed, into their former mode of life. The Mohammedan travellers of RENAUDOT, speak of the power of the kings of Mabed; and declare, that they used to fend, every year, embassadors to the Emperor of China, with prefents: but that these embassadors were narrowly watched, on their entrance into the Chinese territories. They lived in peace with China, but were not subjects of its monarche. These travellers consider Mabed, and Mujet, or Maied, as distinct countries; and there are some grounds for it; and it was perhaps so originally. The inhabitants of Asam were divided, formerly, into Cuj and Muj; and the appellation of Mujet may be derived from the Muj, whom I suspect, however, to be the same with the Magas, or Burmahs, who greatly imitate the Chinese manners. Thus, for Magog, they fay Maginge. After the death of PULIMAN, the whole country was thrown into confusion, according to the Puranas, and Chinese Historians. as we observed before. One of his chief officers, called OLONACHUN. feized upon the kingdom: but was made prisoner, by the Chinese embel. fador, with the affiliance of the Emperor of Tibet.

THEN, say the Pauranies, the And'HRA-BHRITYAS, or servants of the And'HRA kings, set up for themselves: but one, more fortunate, surpassed the others in power: his name was Ripunjaya, with the title of Visvasphurji, the thunder of the world. He exterminated the remnants of the Barons, or Chettris: and filled their places with people of the lowest classes: he drove away also the Brahmens; and raised, to the priest-bood, men of the lowest tribes, such as the Caivartas, boatmen and sister-

men, Patue, Pulindas, and Madracas: but these Brahmens were no better than Mlech'has, or impure, and base born men. These boatmen and softenmen, being used to live upon sish, would never give up their savourite so d, when raised to the priesshood: and their descendants, the Bengal Britanens, live upon sish, even to this day. The same circumstance is mentioned in the Vishnu-Purana. Then, afterwards, a Guptavansa, or obscure race, will reign, all over Anu-Gangam, or the Gangetic provinces; some in Saceta, (or Oude) others at Padmávati, (or Patna;) Prayág, (or Allahabad) Mathurá, (or Muttra) and Canti-puri (now Cutwall, nine cos to the north of Gwalior.) Here no mention is made of Gaur in Bengal: and indeed, its kings are never noticed by the Pauranics.

VI. THE following towns are placed, obviously, in the country of Tibet, by PTOLEMY, and in the Peutingerian Tables. Their names are Aris, Orofana, Afpagora (or Afpacora, ) Paliana (the same with Parthona, ) Thogara, Abragana, Ottorocoras, Solana, with the river Bautes ( or Bautifus. ) These are in the country of the Batæ, (or Budtan) seemingly limited to the districts round Lassa; which, it is highly probable, was originally the case. The situation of Aris is at the meeting of two roads; one from Tahora, and Hardwar ( probably the Eorta of Prolemy); and the other from Cabul, through the hills. From the nature of the country, there is every reason to suppose, that the place, where they met, has not altered its fituation. Thogara, at the other extremity, and on the river Calincius, is obviously the present Tonker, on the river Calthew, near Luffa. The distance between Aris and Thogara, in the Peutingerian Tables, arifing from the intermediate ones, amounts to 175. But these cannot be miles, nor even cos: let us suppose them to be 157 yojanas, or 771. B. miles; which would be sufficiently accurate. From Aris, to Orofana, (the Thubroffene of the tables, and now

called Ari-jun, ) 40 yojanas, or 196 B. miles. Then, leaving K Chiron of the maps,) to the right; the route proceeds to Aspage and hich the present situation is unknown: distance 52 vojanas, or miles. Thence, to Parthona (probably Carthona, or Calthona, and, the town of Kelten or Kerten, on the Sampu: ) dislance or 73 B. miles. According to ProLEMY, the horizontal dille, between Aspacora and Paliana, is 47 B. miles; which, in a mountainous country, like this, mult be greatly enlarged, to bring it into computed distance. Kelten is called also Punjulin, according to my friend, the late PURANGIR, who accompanied the LAMA to China; and who greatly affifted me, in afcertaining the true pronunciation of the names of places in Tibet. Paliana is probably derived from Ponjulin; and Parthona (or rather Carthona,) from Kelten. From this place to Thogara, (or Tonker,) 50 yojanas, or 245 B. miles: and the horizontal diffance, according to MAJOR RENNELL'S map, is about 150 B. miles. According to the Peutingerian Tables, a route branched out, from Aspacora, towards India, and the Ganges. About feventeen years ago, I had a long conversation with PURANGIR, on the subject of Aspagora, or Aspacora. He told me, that Gor, Khar, and Car, were frequently used, in composition, in the names of places; and that Afpa, might be a corruption from Sibar in Sapu, which was a very common name of places, in Tibet; and that Sipá-gor, or Sápu-gor, Sipá, or Sapu-khar, were perfectly idiomatical; though he did not recollect any place of that name. It struck me then, that this was also the name of a famous river, in that part of India, mentioned by CTESIAS, under the names of Sipa-c'horas, Hyparchos, and Hypobarus; because it came, I suppose, from the country of Sipa-c'hor, in Tibet: the same is now called the Teeftah, in Bengal. PHOTIUS has given us, in his Bibliotheca, an extract of this curious passage, from

was to exclusive the majority of the desired the contract of the

CTESIAS, in general true, and correct, with a few wild, and extravagant notions as usual with him. There is a river in India, about one surlong broad, or two stadia, called Hyparcho. PLINY, who had feen Cresus's works, long before Photius, fays it was called Hypobarus, and lowed from the north, into the E flern fea, (or gulph of Bengal, called, by the Pauranics, the eastern, as that, between Africa and India, is named the Western sea). The mountains abound with trees, hanging over the numerous streams, which flow through them. Once a year, during thirty days, tears flow plentifully from them, which falling into the waters beneath, coagulate into Amber. These trees, the Hindus call Sipa-chora. In the country, about the fources of this river, there is a flower of a purple colour, which gives a dye, not inferior to the Grecian, but even much brighter. There is also an insect, living upon these Amber-bearing trees, the fruit of which they eat; and, with these insects bruised, they dye stuffs, for close vestures, and long gowns, of a purple colour, fuperior to the Persian. These mountaineers, having collected the Amber, and the prepared materials of the purple dye, carry the whole on board of boats, with the died fruit of the tree, which is good to eat; and then convey their goods, by water, to different parts of India. A great quantity they carry to the Emperor (the king of Magad'ha), to the amount of about one thousand talents. In return they take bread, meal and coarse cloth. They sell also, their swords, bows and arrows. Every fifth year, the king (of Magad'ha) fends them, as a present, a vast quantity of bows, arrows, swords, and shields.

This Amber of Cresias is obviously the Indian Lacca, which has many properties of the Amber or Electrum. Till very lately, authors differed, as to the production of this curious drug. Some imagined that it was the indurated juice of ome trees. Others, that it was

produced by a fort of infect. This last opinion is the true one: and these infects, being bruised, make a powder, as fine as Co ineal. These two opinions were current, in the time of CTESIAS, w most injudiciously, has blended them together.

To the trees, he has given the name of Sipa-c'hora; and to the trees, that of Hyparcho, or Hypobarus: but Hyparc'ho is but a corruption for Sypa-c'hor. Sypo-bári is the Hindu name, answering to the Tibet one of Sypa-chor: for Bári or Barry, as it is written in the maps, is very frequently used, at the end of proper names of places, and signifies a limited spot of ground, an inclosure, and a garden.

It is more probable, that the river was thus called, because it came from the country of Sipa-gor, or Aspacora. Cresias fays, it was a Hindu name; and yet, the meaning of it he attempts to derive from the Perfian, as most of his other Hindu etymologies: but, though he had spent seventeen years in Persia, it seems, he understood that language but very imperfectly; and, I think, he was peculiarly fortunate, in not forgetting his own. He accompanied the younger Cyrus, with the 10,000 Greeks, in the unfortunate expedition, in which that prince loft his life, in the year 401 B. C. CTESIAS was taken prisoner, and, being a Physician, became a great favourite with ARTAXERXES MNEMON. Sipa-gor was obviously on the road, between Ari-jun (or Aridfong,) and Laffa; and which, according to P. Giorgi, branches out into three, which reunite again at Laffa. It is tolerably well delineated in the maps of the LAMAS. The distance between Sipá-c'hor, and Ponjulin, as given, either by PTOLEMY or in the Peutingerian Tables, does not agree, being certainly too fhort. But when we confider, that the geography of that country is yet in its infancy, and the want of ac-

curacy in Prolemy, and in the Geographical works of the ancients, we shall not be surprised at it. It appears however, that Sibá-c'hor was fituated in the beautiful valley of Tankya, near the streams which form the Teeftah. There is a place called Sipa, on the road, from Nabe to Laffa: but it is too near Napal. Procemy places it on the river Bautes, or Bautefus, now the Bont-fu: though Bot-fu, or the water of Bot, or Bud tan, would be a very proper name for the Sanpoo. This, I believe, missed Prolemy, who places Aspacora on that river. The fouthern branch of this river, the real Bautifus, he derives from the country to the west of Aridfong, and makes it pass through the valley of Tankya. The town, called by him Solana, is probably Ujulin, called Ujuk-link, in the map of the LAMAS. Thus they call Punjulin, Pufukliang: but my friend PURANGIR affured me, that the true pronunciation of it, in Tibet, is Punjulin, with a nafal n at the end. The name of the country of Ottoro-cora, with a city of the same name, is pure Hindui: Attaro-ghur, the eighteen forts, or Rajaships. It is the country of Napaul, now called the 24 forts, or Rajaships. I am informed, that Napaul proper confifted, originally, of eight forts, or Rajaships; in Hindui, At ghur; perhaps, the Attacori of PLINY: for the number of vallal Rájahs, and tributary forts to Napaul, must have been constantly fluctuating. But, let us return to CTESIAS, and his account of the inhabitants of the fouthern parts of Budtan, which will be found remarkably accurate, (though received into Perfia, 400 years, B. C.) a few wild notions excepted. Their Could her of Mine, except Aller of the

THESE people, says he, inhabit the whole range of mountains, as far as the Indus, to the westward. They are very black, but otherwise remarkable for their probity, as the other Hindus are in general; and

with whom there is a constant intercourse. They live by hunting, piercing the wild beasts with their darts and arrows: but they are also so swift, as to run them down. They have the head and nails of a dog, but their teeth are longer; and they bark like dogs, having no other language: yet, they understand the Hindui, but express themselves by signs, and barking. They have also tails like dogs, but longer, and more bushy. The Hindus call them Calystrii, or Dog-faced.

This idle flory originates, from their being swift-paced, and running down their prey like Gre-hounds. These Dog-faced Sylvans, are called Swána-mu'chas, in the Puránas; in which we read also of tribes, with saces like horses, parrots, &c. in these mountains. But it was, however, a very appropriate hieroglyph, by which to designate these people. Thus the Icthyophagi, or fish eaters, on the coasts of Persia, are called in Sanscrit, I am told, Sir-matsyas, or fish-heads, and in Persian romances, Ser-mahi; which signifies the same thing. Calystrii seems to be derived, from the Sanscrit Cauleyaca-Siras, or Cauleyá-Siras, with the heads of Gre-hounds.

THEY live upon flesh, dried in the sun: (and in Tibet they thus dry whole sheep, which they place upon four legs). The men never bathe: women only once a month. They rub their bodies with oil. (This is the practice in Tibet, and they use butter instead of oil). They generally live in caves: (this is the constant practice of the mountaineers, to this day, in winter: in summer, they live under tents, and in arbours.) Their clothes are of skins, except a few of the richest, who wear linen.

BEYOND the fources of the Sipa-c'hora, is a tribe of men, black also; but they have no evacuations. They however, make a little water occasionally. Their food is milk alone, which they know how to

preyent from coagulating in their stomachs. In the evening, they excite a gentle vomiting, and throw up the whole. This strange narrative is not without foundation: many religious people in India, in order to avoid the defilement attending the coarfer evacuations, take no other food but milk: and, previous to its turning into faces, as they fay, they swallow a small string of cotton, which, on their pulling it back, brings up the milk, or those parts of it, which they consider as the Caput mortuum. This they make the credulous multitude believe: their disciples are ready to swear to it; and they have even deluded persons, otherwise of great respectability. I suppose they conceal themselves, with great address; and their evacuations cannot be very frequent, nor very copious; for they really live upon nothing elfe, but a very fmall quantity of milk: but certainly more (at least I should suppose so) than they do acknowledge: and the ceremony of the string they perform occasionally, before a few friends. I have known many of these people: they are all hermits, who feldom stir from the place they have fixed upon. There is one near the military lines, at Sicrowre, near Benares, on the banks of the Burna: but, I believe, he is rather in too good case, for a man living upon fo fcanty an allowance.

The next place in Ptolemy, is Abragana, placed by him, to the S. E. or nearly so, of Paliana, and Aspacora. This I conceive to be the large district of Bregion, called also Bramahsong; extending from Napál, along the borders of India, and Asam, toward the east; and the capital city of which was called, also, by the same name. Ptolemy places a samous city, about 350 geographical miles, horizontal distance, from Thogara, to the eastward, under the name of Sera, the metropolis: but of what country? of the Seres? no surely; for they are not introduced into his maps. It

was obviously the metropolis of Serica, a derivative form, from Ser, the name of China, to this day, all over Tibet, and implying a country subject to Ser. This Será is, much more probably, the ancient, and famous city, called Dfiri, Siri, and Sera, to the S. E. of Lassa. Its real name is Cheri, or Tseri, according to several pilgrims, who had visited this samous place of worship. Between it and Tonker, Ptolemy places, about half way, a town called Dac-sata, probably in the kingdom of Tac-pa, between Seriand Tonker.

THERE is another Bracmania, or Bragmania, in the Gangetic Provinces, mentioned by PALLADIUS, in his account, in Greek, of the Bragmans. CALANUS and DANDAMIS came from that country: and the latter is introduced, reproaching CALANUS, with his defertion, who could not remain fatisfied with the pure waters of the Tiberoboas, or Taberuncus. This river was to the eastward of the Ganges; for DAN-DAMIS, OF DAMA-DAMIS fays, how can ABEXANDER be called the conqueror of the world, whilst he has not yet crossed the Tiberoboas, or Tyberoboas: let him only go beyond the Ganges &c. The country of these sages was probably Tirhoot, in Sanscrit, Tri-bucta. This word has been difforted, various ways, which have very little refemblance with their primitive, and original form. The diffrict of Turhut, confilted originally of three divisions: the first of which is called, to this day, Tirhut, or Tyroot; the second is denominated, Ti-Ru-hut; and the third, Ru-Ti-hut. These words are also pronounced Ti-Ru-buct. Ru-Ti-buct. Thus Sri-hut, is now called Silhet, and, by Arabian authors, Sarirat. Tribucta is derived from Tri three, and Bucta, from a verb implying to foster; either, because there were three Rajas, fostering the whole country, or one Raja, who alone fostered the three districts, and we may say either Tri-bucta, or Tribhuc.

Irs capital city is Durbungah, by many derived from Tir-bulla, or Tirbhuc. From Tirubucta, and Tirbucta, the name of the river. Tiberoboas, or Taberuncus, may, possibly, be derived. Some learned Pandits derive the etymology of Dur-bungah, from Dwara, or Dewar, and bangah: beeause the door, or gate way, of the palace of the king, was destroyed by the river, during the rains; and the palace was in confequence forfaken, as it had been recently built. From Dwara-bangah, Dewarabangah, synonymous with Dewar-baha, is probably derived the name of the river Tiberoboas, or Tiberobancus: for thus we should read in the original, instead of Tiberancus. The Bragmania of PALLADIUS is probably the same with the Braemania of the anonymous geographer: for the greatest part of Tribuct is in the Indian Serica of that author, and, of course, belongs to the Rajaship of Napal. MR. DANVILLE was induced to suppose, that the country of BRAMSONG was the Bracmania of the anonymous geographer of Ravenna; because the French say, Brames, instead of Brahmens; Tir-hut, called also Mithila, and Maithila, is famous, from the most remote antiquity, for the learning of many Brahmenical families, refiding there, even to this day. The appellation of Bramfong is probabably derived, from a colony of Burmans, fettled there. The language of these mountaineers has much affinity with the dialect of the Burmahs, according to M'R. BUCHANAN's vocabulary: Their country is called, in the Maha-Bharata, Varma-desa, and placed in the east, seemingly, in opposition to Sarma-desa, or Ethiopia. The names of Magad'ha, or Mabed, have been distorted, by Persian and Arabian authors, into Maber, or the passage: because there is a passage, through it, to the adjacent countries: for the fame reason, they have altered the name of Lahaur, into Rahwer, the road; because there is really a road through it. They fay also, that the kings of Mabed were called

BIRDOWAL; which may be a corruption, from VRISH-BALA, or VRIJA-BALA, pronounced in general, BRIJBALA, and BIRJWALA. This was also, one of the many names of BALIN, the founder of the Dynasties of the And'hras, and And'hra-bhrityas.

VII. From Gaudidesa, Gaudi-varsha, or Gaud-warsha, its inhabitants are called Gadroft, by ARRIAN: their country Gandaris, by DIODORUS the Sicilian, and Goryandis, by NONNUS, in his Dionyfiacs (1), and this last comes nearest to Gauri-desa. This passage is really curious, and interesting. The poet is enumerating the various nations, which joined DERIADES, or DURYOD'HANA, and MORRHEUS, the Mahá-Rájá, in the great war. Then came, fays he, those, who live toward the east of India, in the populous country of Encolla, the abode of warlike AURORA, and in the divine Goryandis, with its well cultivated fields. After them came those who inhabit the country of Oeta, the mother of long lived elephants, ranging through its extensive forests. Encolla is the country of Utcala, now Oriffa: formerly inhabited by a warlike race, at last extirpated by the CARNAS, or kings of Magad'ha, according to the inscription on the pillar at Buddaul. UT-CALA, or UD-CALA, implies the great, and famous country of CALA: and, in the spoken dialects, as well as in Latin, UD-CALA, may be pronounced Uc-cala, as Ac-currere, for Ad-currere. NONNUS gives to Gaura-desa the title of divine, from its capital city, which was originally a place of worship, in a forest, dedicated to the goddess Gauri. From this circumstance, it is called Corygaza, by PTOLEMY, from the Sanfcrit Gauri-ghofha.

<sup>(1)</sup> Nonni Dionys. lib. 26, v. 294.

The country of Oita, or Oëta, is that of Oude, with forests in the northern parts, still abounding with Elephants. The town is fituated on the Gagra, or Sarjew, called after it, the river Oedanes, or Oude river, by STRABO, who represents it as a large river, abounding with crocodiles, and dolphins, and falling into the Ganges. The town itfelf is called Athé-nagara, or the town of Athe, by PTOLEMY. The geography of the countries to the north of the Ganges, in that author, is distorted in a most surprising manner: and every geographer since has been equally unfortunate, with regard to that country, till Major. RENNELL's time. All the ancient maps of India, in THEVENOT'S collection of travels, and in other authors, are equally bad: and MR. DAN-VILLE's description of this tract is by no means superior to that of PTOLEMY; for he places Canouge below Allahabad. Fortunately, the names of these places in PTOLEMY, being very little disfigured, may be easily brought again into their proper order and situation. The town of Athé (or Oeta) is Oude; Suan-nagura, for Suan-nagara, is the Nagara or town of Sewan, in Sircar Sarun: Caffeda is Casi, or Benares, with the mark of the Genitive case, according to the idiom of the western dialects. Thus TAVERNIER calls Sooty, Soutiki; and other travellers use Dacca-ca for Dhaca. Selampura, from the Sanscrit Sailam-pura, or the Stone-town or fort, and in the spoken dialects Pattar-ghar, is near Hardwar. The kings of Gauda were not known till the declention of the empire of Magad'ha: until then they were vallals, and tributaries. They extended, afterward, their dominions as far as Allahabad, and affumed the titles of Mahá-rájas: and Bengal is called Maarazia, or country of the Mahá Rájá, by Nicolo DE CONTI, who visited it, in the fisteenth century.

TRADITION says, that BUDDHA-SINHA, emperor of Gauda, was in possession of Benares, at the time of the invasion of the Musulmans; and this is confirmed by an inscription, found near Benares, some years ago, and inserted in the fifth Volume of the Asiatick Researches, but without a translation. It was written in the year of Vicramaditya 1083, answering to the year 1026 of the Christian Era. There it is said, that Sthirapala, and his brother Vesantapala, the sons of Bhupala, king of Gaura, had erected a most sumptuous monument, still existing, at a place called Sarnáth, near Benares. This monument of Bhauda'hish kings is mentioned by Tavernier, who mistook it for a sepulchral monument of the kings of Boutan. Sthirapala is mentioned, under the name of Dhirapala, in the list of the kings of Bengal, in the Ayin Acberlic by which it appears, that they pretended to be descended from Bhagadata the son of Naraca, King of Prágystisha, now Gauhati, beyond Gwalpara, on the borders of Assam.

NARACA was put to death by CRISHNA; but he restored the king-

VIII. The country of Magadha was thus called, from the numerous families descended from the sage Maga, the offspring of the sun, and the grandson of the venerable Twashtah in the west. They came into India, in the time of Crishna, at the request of his son Samba. They settled in the province of Cicata, now south Bahar. There are two tribes of Brahmens in India; those of Canyacubja, or Canoge; and the Sacas, or Sacalas, thus called because they came from Sacam, or Saca-dwipa. They are also called Magas, from their Sire Maga: and from them are sprung all the Magas, (or Mugs,) in the eastern

parts of India, the Burman empire, Siam, and China. I shall give an account of their origin, and emigration to India, when I come to treat of the white Island. The other Brahmens, in India, are called Canyacubja, because that was their first festlement, on their arrival in India. It is univerfally acknowledged, that the kings of Magad'ha gave every possible encouragement to learning; which they endeavoured to diffuse through all classes, by encouraging learned men to write in the spoken dialect of the country. Tradition fays, that there were treatifes, on almost every subject, in the Magadhi, Báli, or Páli, dialect, which are fupposed to be still extant. I could not however procure any, and I believe that they were doomed to oblivion, by the Brahmenical class, who by no means encourage the composing of books in the vulgar dialects. Should they exist however, they are to be found among the followers of JINA: and MAJOR MACKENZIE fays, that these sectaries are in possession of a great many treatises, on different subjects. That this is the case here, I am credibly informed: but the JAINAS are not of a communicative disposition: and I hope that gentleman will find them more tractable in the Peninfula. From that circumstance, the dialect of Magad'ha is become the Sanfcrit of Ceylon, Siam, and the Burman empire: where it is called indifferently Bali or Magad'hi. CAPT. MAHO-NY writes that word Magedee, and Mr. BUCHANAN, in his learned and interesting Eslay, on the Religion and Literature of the Burmahs, ealls it Magata. Both fay, that it is the same with the Báli, or Páli, which last denomination prevails, through the countries of Ava, Siam, and Ceylon, though hardly known in India, where they call it Magadhi. According to CAPT. J. Towers, the word Páli is written, in Aracan, Palit: where the letter T has a very peculiar found. The country of Pali, or of the childern of PALI, or BALI, the same with MAHA-NANDA, according to the Puranas, included all the country to the fouth of the Ganges, from the banks of the Soane, to the western branch of the Ganges.

THE Bàli characters, either square or round, are obviously derived from the Sanscrit: but it is doubtful, whether in their present state, they ever prevailed, or were used, in any part of India. Among the numerous inscriptions in Bahar, only a few in that character have been found. One was kindly sent to me by Mr. Dick of the Civil Service. It was obviously written in the Burmah character, but I could not decypher it.

The Bards of Magad'ha were in great repute formerly, and they are mentioned under the name of Magad'has. They reckon three forts of Bards in India: the Magad'has, or Historians; thus called, because those of Magad'ha were the most esteemed: the Sutas, or Genealogists; and the Bandis, whose duty was to salute, early in the morning, the King, or Chief, in selected phrase, and well chosen words; wishing him long life and prosperity. The usual name in India, for a Bards is Bhat, vulgarly pronounced Bhat. It is not a Sanscrit appellation, though afferted to be derived from it, But the original name, as it was pronounced several hundred years ago, was Bardái or Bárdáhi, though some think it a different name, applied to the same class of people.

Bhát, or Bhat, is derived from the Sanscrit Várta, or Bartá; and which is the same with the English word and the German wort, a word. In the west, Bhats were equally called Bardi, in Latin, and Bhardh in Welsh; they were also called Vates from fari, fatus sum in Latin, the same with Vártá, the letter R being dropped, as in the vulgar dialects of India. They were also denominated Eubages, from the Sanscrit

verb Vacha or Bacha, to speak, which becomes Uvácha, and Ubácha, through various moods and tenses. Vacha, or Bacha, becomes also Bága, or Vága; hence the Irish word Bogh, rendered Logos, or speech, by General Vallancey. The word Bardai, or Vardai, comes obviously from the same root Vártta; but my learned friends are of opinion, that it comes from Bhár-dánam, which signifies to burden with; because they are burdened with the internal management of the royal houshold: and this is the case, to this day, in Gurjarát; being next to the Pradhán, or prime Minister (called Pardon by Mr. Lord), though independant of him.

THE famous Chandra, or Chanda-Bardai, was Bard to PRITHU-RAJA, King of Dilli, whose wars are the subject of an Epic Poem, in the spoken dialect of Canoge, and of some antiquity, since it is mentioned in the Ayin-Acberi. He was a favourite of Devi, and was Tri-Cala, knowing the past, present, and future. The title of Bardai is translated musician by ABUL FAZIL (1) His functions, both in the field, and at home, were exactly those of the ancient Bards in the west: except, that, in India, a real Bard fings only, but does not play upon any instrument; this being the office of musicians, who do not sing. He took a most active part in the bloody war between PRITHU RAJA, and JAYA-CHAN'DRA, king of Canoge, and Mahá Rájá at that time, about a beautiful damfel given to the latter, by VIRABHADRA, king of Ceylon; when JAYA-CHAN'DRA went in person, at the head of a numerous army, to sorce him to become tributary, and vaffal of the Empire; giving out, that he was only going to worship at the place of Cárticeya-Swámí, in the fort of Sancara ghar in Sinhala, or Ceylon: which place is reforted to, equally by orthodox Hindus, Bauddhists, and even Muslemans.

<sup>(1)</sup> Ayin - Acberi. Vol. 2. p. 120.

He was accompanied by CARNA-DAHARYA, king of Magadha. PRI-THU-RAJA waged a long, and bloody war against Sultan Gori; but was defeated, and lost his life, in the year 1192. Part of the poem, in which PRITHU RAJA's wars with JAYA-CHANDRA, and SULTAN GORI, are described, is in my possession.

THE Bards of mortal men, are not mentioned in any Sanscrit book that I ever faw: only those of the Gods. The Sid'dhas, the Charanas, and the Cinnaras are the three classes mentioned in the retinue of the Gods, befide the Purohita, or high priest: the regent of the planet JUPITER enjoys that high office, among the Gods; and Sucra, who prefides over VENUS, among the giants. The SIDD'HAS are priests, and persons of uncommon learning, and deep knowledge, to whom nothing is impoffible. The Charanas, are really the Bards of the Gods: and were probably the same with the Saron class of Druids, called also Saronides. The Cinnaras are historians; and the Charanas are also acquainted with the genealogies of the Gods, and of mankind. The bards of mortal men were also called Charanas, according to ABUL-FAZIL. Every great man, in India, had Bhats in his retinue: the practice is still kept up in Gurjarát; where they are highly respected to this day, according to my Pandit, who is a native of that country. The Bhats or Bhatlas, and Charanas, are mentioned by ABUL-FAZIL, in his description of Subah Gujarat. Their employment, fays he, is to fing hymns, recite genealogies, and warlike fongs in battle, to animate the troops. They acted also as heralds, as in the case of CHANDRA-BARDAI. ABUL-FAZIL makes some difference between the Bhats, and Charanas: but my Pandit fays, that he never knew of any, Charana being really the Sanscrit word for Bhat or Bhatta. CHARANA, their ancestor, is said to have sprung from the

fweat of Mahadeva, who intrusted him with the care of his Ox Nandi, who resides in the white Island. But I am told, that, in the Puranas, it is said, that they were born from the churning of the right arm of Vena, father of Prithu or Noam. Bards, in this part of India, being without employ, are become a most despicable race of men. They are more respected in the Deccan, according to Major Mackenzie, who says, that they are generally called Cavisars, from Cávyéswaras, or the Lords of the Drama.

THE Merchants of Magadha formed, not only a peculiar class, but also a particular tribe, called the Magad'hi tribe. It seems, that they were bold, enterprifing, and at the same time cautious, and circumspect: hence they are faid to be merchants by the father's, and warriors by the mother's fide, according to MR. COLEBROOKE's account of the Hindu Classes. According to the VISHNU-PURANA, the kings of Magad'ha originally refided at a place called Girs-Vraja, or Giri-Braja. Vraja is fynonymous with GHOSHA, a herdsman, also the abode of a herdsman; and being fituated in the hills, it was called Giri-vraja. From that circumstance, the kings of Magad'ha were, till a very late period, called Vraja-balas, or rather, in the spoken dialects, Vraja wálás, or Braja-walas, distorted afterwards by Mufulman writers, into Birdaoval, according to HERBELOT, and Birdawal according to ABULFEDA; who fays, that it was also the name of their metropolis. Giri-Braja was fituated in the province of South Bahar, among the mountains of Sivira, now called the Raja-gir, or the Royal mountains: but more probably the real name was RAJA-GRIHA, from a place of that name, implying the Royal abode. It is erroneoufly written, in MAJOR RENNELL's atlas, Rargiara. This is acknowledged to have been one of their places of abode: for they fay, that the royal throne was at a place called Afana, above Gáya, on the river Balga, now Fulgo, called Cacuthis, by Arrian. Afana fignifies a Royal feat, or throne: and Prolemy mentions, also, a place of that name, Afana mára, or the destroyed throne. It is called Prácjyotisha in the Puránas, and its remains are near Go. háti, on the frontiers of Assam.

THERE, among the Raja-griha mountains, the unfortunate JARA-SAND'HA had a palace, near fome hot springs, where he generally resided: fome remains of it are to be feen to this day, and it is confidered as a place of worship. The Pújá is there performed, first in honor of CRISH-NA, and the five Pandavas: then with flowers in honor of old SAND'HA, and his fon Sahadeva. There, in memory of this unfortunate hero, martial games are annually exhibited. They are performed with clubs, whilst drums are constantly beating. I am informed, that there is a statue of him, of an ordinary fize, and feemingly of great antiquity. He isrepresented naked, with a club in his hand. Formerly the same games were exhibited, in his honor also, opposite to Patna, in a small island, called, from that circumstance, Sam-Mallaca, and Sambalaca by PTOLEMY. They were then celebrated with great folemnity: people came from distant parts; and, during the time they lasted, a fair was held there. The games, the fair, and the place where it was held, were famous all over India, and the name of Sam-Mallaca became synonymous with Pátali-putra. It is now called Summalpoor or Sumbulpoor, and, in MAJOR RENNELL's atlas, Subelpoor.

From the manner in which JARA-SAND'HA is represented there, and also from other circumstances, he is fully entitled to the epithet of HERCULES, or HARA-CULA, given to him by Nonnus in his Dionystacs.

THE Sinhalas, according to CAPT. MAHONY, fay that BUDD'HA Was born in the country of Maddadefa (Magad'ha-desa) in Dumba-deeva (Jambu.dwipa.) at a place called Cumbool-wat-pooree, (Camalá-vatí-puri): and that he died at Coofeemaposree (Cujumápuri) in the same country. Camalávatí puri is the fame with Padmávatí-puri, or the city of the Lotos; which we have feep is the same with Cusumápuri, now understood of Patna. It is added, that he died at the court of king Mallalel, which fhould be Mahá-ballala or Má-vallala, a very common name for kings. I have shewn before, that Cusumápuri, Padmávatí, Camalá-vatí-purí are epithets, and not proper names of places; and applicable, and generally applied, to the place of residence of great kings. Pátali-putra is never mentioned in the Puranas, or Sanscrit books of any antiquity; and its grammatical name is Pátalí-pura. As it was the metropolis of the Empire of Magad'ha, in latter times, and had also the emphatical name of Padmá-vatí-puri given to it; every transaction mentioned, as having happened at Padmávatí, was of course understood of the last known place under that name; and indeed, it was foon forgotten, that there were once feveral cities of that name in that country.

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## ESSAY III.

Of the Kings of Magad'ha; their Chronology.

I. As the kings of Magaa'ha were Lords Paramount, and Emperors of India, for above two thousand years; and their country the seat of learning, civilization and trade; a Geographical, and Historical description of this once samous country, cannot but prove both curious and interesting. By Magad'ha proper, South Bahar is understood, but, in a more extensive sense, it includes all the Gangetick Provinces, and is by far the richest and best part of the British Empire in Asia. It is also samous for having given birth to Budd'ha, and being, as it were, the cradle of the religion of one of the most powerful and extensive sects in the world.

THE Chronology of its kings is connected with the period of the Caliyuga; which confilts of 432,000 years. This, the Hindus have divided
into fix unequal portions, or subordinate periods, called Sacas, because
they derive their origin from fix Sacas, or mighty, and glorious monarchs: three of whom have already made their appearance; and three
more are expected. This system of the fix Sacas, with their periods, is
thus explained in the Jyotirvidábharána, an astronomical treatife. Whatever man kills 550,000,000 Sacas (a mighty tribe of Hereticks), becomes
a Saca; and whoever kills this Saca only, becomes a Saca also.

THE first was YUD'HISHTIRA, born on the Sata-Sringa, or mountain with an hundred peaks, at the extremities of the world; beyond which no body can go; his period lasted 3041 years. Then came the Era of VICRAMADITYA, the second Saca, which lasted only 135 years. He was born at Tamrá-vatí-nagari, or the town abounding with copper. It is called Trambá, or Tambá-vati, in the spoken dialects. It no longer

exists, having been overwhelmed with a deluge of sand. It was near Cambát; thus called from a place of worship, denominated Sthamba-tittha, or with a Sthamba or pillar, called, in the spoken dialects, Camba. From Sthamba, the Greeks made Asta: and from Tamra, (Tramba,) they made Trapera, Campra, and Copra Copper: and, as these two places are contiguous, they said Asta Trapera, Asta-Capra, Campra &c. Sometimes they represented them as two distinct cities.

The third Saca was Salivahana, born at Saleya-Dhára in the Decean; and his period will last 18,000 years. The fourth Saca will be Vijayabhi Nandana, who will be born at Su-Chitra-cúla; his period will last 10,000 years. Then, at Rohita (or Rotas,) will be born Nagarjuna; whose period will last 400,000 years. Then will re-appear the antediluvian Bali, who is to be born at Bhrigu-gosha, Barigaza, or Baroach: his period will last only 821 years; when a general renovation of the world will take place.

THE Hindus have thought proper to connect their chronology with an astronomical period of a most strange nature. It is that of the seven Rishis, or seven stars of the wain, which are supposed to go through the Zodiac, in a retrograde motion, in the space of 2700 years. They are at present in the Lunar mansion of Swática, according to the most samous Astrologers of Benares, who cautioned me against the erroneous opinion of other astronomers, in various parts of India, who insist that they are now in Anurádhá.

I REQUESTED an able astronomer, to give me, in writing, an account of this wonderful revolution. This period, says he, is not obvious to the sight; but it does, however, really exist, being mentioned in old Saf-

Lunar mansion, for a hundred years; and their presence, or rather influence, over it, is sufficiently obvious: and, according to SACALVA MUNI, their yearly motion is of eight liptas, or minutes,

In the Varahi-fanhita, the Vifhnu-Purana, and also in the Bhagavata, I believe, it is declared, that, at the birth of PARICSHITA, the seven Rishis had been in Maghà for sour years, or 4905 years ago; and they were in Purvashara, in the time of NANDA.

But in the Brahma-Sidd'hanta, it is declared, that they were then in Sravana, which makes a difference of fifteen Lunar mansions, or 1500 years: so that, according to that author, the Cali-yuga began 2405 years ago, or 1600 years B.C. supposing the seven Rishis to be now in Swatica, in which they are to remain ten years more; but, if they are in Anuradha, the Cali-yuga began 1400 years B.C. The author of the Garga-Sanhita, according to Bhattotpala, in his commentary, seems to be of that opinion, when he says, that the seven Rishis were in Magha, in the twilight between the Dwapar and the Caliyuga. In the Lallotad'hi-vridd'hi, it is declared, that they were then in Abhijit, or in the first of Sravana.

The names of the seven Rishis, shining in the wain, are Puláha, or the star z; Cratu, B; Atri, Y; Pulastya, S; Angiras, z; Vasisht'ha, Z; and, close to it is a small star, representing Arundati his wise; the seventh is Marichi, or n. My friends insist that their motion is perceptible; and they shewed them plainly to me in Swáticá. Of this they wanted to convince me, by drawing a line, from that mansion, through the stars B and a of the great bear. When they are in Maghá, then the line passes through this afterism

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part of the starry heavens. When Nanda was born, they were then in Purváshálhá, or about 400 years, B. C. and he died 327 before the Christian Era. Astrologers watch carefully their motion, because their influence is variously modified through every mansion: and whatever new married couple see them in a fortunate moment, they are sure to live happy together for a hundred years. Hence, says the ingenious MR. BAILLY, we may safely conclude, that no body ever saw them in that propitious moment.

THE period of the feven Rifhis begins to be neglected in the more northern parts of India, because they are not always to be seen at the lacky moment; and, in their stead, they use Dhruva, or the polar start. This star is often mentioned in the facred books of the Hindus, and it is connected with their mythology; but has not long been near enough to the Pole to be thus denominated after it: and, for a long series of years before, there was no Dhruva or immoveable star. Be this as it may, Dhruva, with his relations, shines in the lesser bear. In the Yantra-ratna-vályam, this constellation is called the sist of Dhruva-brahmanadhicara. It consists of thirteen stars: Dhruva is in the mouth, and Uttanapada, his father, in the tail. The mouth is turned toward Bharani, and its revolution is the same.

THE wives of the seven Rishis are the Pleiades, at least six of them; for the Hindus do not know, that they were seven formerly. Agnifell in love with them; but his wife, dreading the resentment of the holy Rishis, assumed their shapes and countenances, and thus personifying

them, satisfied her husband's lust. She was however unsuccessful with regard to Arund'hati, the consort of Vasishta, on account of her extraordinary holiness and sanctity. Soon after, some scandalous reports prevailed, and the six other Rishis dismissed their consorts, and drove them out of their places, within the Arctic circle. They were intrusted with the education of young Carticeya, who placed them in the Zodiac, after expelling Abhijit.

THE PLEIADES, according to Mythologists in the west, were intrusted likewise with the education of BACCHUS, (who, according to MACROBIUS, was the same with MARS, or CARTICEYA); and, on that account, he translated them into heaven. According to those writers, they suffered a real bodily pollution; and the seventh, says Hyginus, lest her sisters, and sled to the region of the heavens within the Arctic circle; (1) and this is the Arundhati of the Hindus.

I HAVE not been able to ascertain whose daughters the consorts of the seven Rishis were: neither did the western mythologists agree about it; though they supposed, in general, that they were the daughters of Atlas: but, as they never existed, it is a matter of little consequence. Thus we see, that, according to some, Yudhishtir, or Judhishter, lived 3100 B. C. and beganhis reign immediately after the Pralaya, or slood; like Xisuthrus, or Sisisthrus; whilst, according to others, he lived between the years 1500 and 1370 B. C. like Sesostris.

THE beginning of the Cali-yuga, confidered as an astronomical period, is fixed and unvariable; 3044 years before VICRAMADITYA, or 3100 B. C. But the beginning of the same, considered either as a civil, or historical period, is by no means agreed upon.

<sup>(1)</sup> Hygin. Poetic. Astronom. p. 471.

IN the Vifinu, Brahmanda, and Vayu Puranas, it is declared, that from the beginning of the Cali-yuga, to Maha-Nanda's accession to the throne there were exactly 1015 years. This Emperor reigned 28 years; his sons 12; in all 40; when Chandragupta ascended the throne, 315 years B. C. The Cali-yuga then began 1370 B. C. or 1314 before Vicra-Maditya: and this is confirmed by an observation of the place of the Solstices, made in the time of Parasara, and which, according to Mr. Davis, happened 1391 years B. C. or nearly so. Parasara, the father of Vyasa, died a little before the beginning of the Cali-yuga. It is remarkable that the first observations of the Colures, in the west, were made 1353 years before Christ, about the same time nearly, according to Mr. Bailli.

In the fame Puranas, it is also declared, that, from the Dynasly of the Nandas, to king Puliman, there would elapse 836 years. Puloma, or Lomadi, called Poulomien, Oulomien, and Oulomiento, in the annals of China, died in the year 648, according to De Guignes. This passage from the Brahmanda is obscure, being in a prophetical style: the words are. 'From the birth of Parichita to Nanda (I suppose his accession to the throne) there will be 1015 years: from Nanda to Puloma and the Anderas, 836 years.' Nanda died 327 years B. C. and Puloma in the year 648, according to the Annals of China: the difference is 975 years, instead of 836.

Is we suppose, that the 836 years are to be reckoned, from the end of the Dynasty of Nanda, instead of the death of their primogenitor, the numbers will agree perfectly well. This Dynasty lasted, either 137, or 139 years, according to the Puránás; which, added to 836, give exactly 975, the number of years required.

THE accuracy of the annals of China, and the careless of the Hindu chronologers, are equally known; and, of course, the former must be our guide.

According to the BAUDD'HISTS, theancient BUDDHA, or DHARMA-RAJA, probably the same with YUDHISHTIRA, manifested himself, or began to reign, 1367 years B. C. as mentioned in the Ayin-acberi. It will appear hereafter, that the . DHARMA-RAJA, the subordinate MENU of his Calpa, was really the MINDS of the Greeks: that CRISMNA, or RAD'HA-MOHANA, was the same with RHADAMANTHUS, or RA-DHAMANES. MINOS could not have lived earlier than 130, or 140 years. before the Trojan war, which happened 1184 B. C. and the time of hisdeath happened about 1320 years before the same Era. If the taking of Troy happened 1200 B. C. as some suppose, then MINOS died about the year 1330: and, admitting, that the first year of the Cali-yuga was the 1370 year B.C. YUDHISHTIRA, of course, died in the 1332; according to fome, who affert, that he died 38 years after the beginning of the Caliyuga. Others fay, that he lived 28, and even 8 years only, after the beginning of that period. The DHARMA-RAJA of the Bauddhifts lived 120, and MINOS 120 also, or 125 years, according to others. Nonnus, in his Dionyfiacs, shews that JARA-SANDHA, literally old SANDHA, Maharája of India, and whom he well describes, when he says, that Mor-RHEUS, the Emperor of India, who was called SANDES, was contemporary with MINOS; and his BACCHUS is the fame with BHAGAVAN, in the character of CRISHNA. Thus we have two Eras of the same event, (an inferior, and fubordinate Cataclyfm, or defolation,) one 1578, and the other 1370 years B. C. This defolation of the world was the deluge of DEUCALION, as I have shewn in my Essay on mount Caucasus: and the

made use of the same computation nearly with the Pauranics, for they say, that it happened 1529 years B. C. according to Eusebius and the Parian Chronicle, and other authors: whill the ablest Chronologers have shewn, that it could not have happened earlier than the year 1380 B.C. The Greeks had also four ages, like the Hindus; and the last, or Iron age, answering to the Cali-yuga, began some time before the Trojan war, and a little after the expedition of the Argonauts and Deucalion. Hesiod laments very much, that he was born during that age of corruption and wretchedness. Thus the Greeks and the Pauranics themselves, in their more sober moments, agree perfectly about the beginning of the Cali-yuga, or Iron age.

According to the Institutes of Menu, we may place the beginning of the Cali yuga about the year 1370 before Christ. For we read there, that men in the golden age lived 400 years; 300 in the next, or silver age: 200 in the brass one: and 100 in the Cali-yuga. These four ages are obviously to be reckoned from the flood; after which, men, as far down as Eber, lived about 400 years: and then, regularly decreasing, till the beginning of the Iron age, or 1370 B. C. when we find that Yud'hishthira, Crishna, Minos, and Jupiter lived about 100 years.

The followers of Jina place the beginning of the Cali yuga in the year 1078 B. C. as we shall see hereafter. Their Chronological system has, of course, much affinity with that of Sir Isaac Newton. Every Pandit will boast, that they have uninterrupted lists of kings, from the beginning of the Cali-yuga, to the Era of Vicramaditya; and even lower down, for the space of 3044 years: but what was my astonishment, to find, in perusing the Puranas, that this was by no means the case, as it appears from the accompanying Table, in which, one list gives only.

1718 years, and the other no more than 1672, from the first year of the Cali-yuga to the Era of VICRAMADITYA. In the third column, which I have made out of the shortest numbers in both lists, the sum total amounts only to 1409 years; from which we must deduct 36 years, for the supposed reign of PUSHPAMITRA, (for he did not ascend the throne himfelf, after having murdered his own fovereign; but refigned it to his fon;) and there remain 1373 years; and the highest numbers in both lifts give 1855. The first list is from the Brahmánda, and the fecond from the Váyu-purána. In other Puránas, the number of years, during which each prince reigned, is omitted; but the fum total of the reigns of each dynasty is recorded. From the first year of the Cali-yuga, to the death of Puranjaya, they reckon 1000 years, for 22 reigns, or perhaps generations; which is inadmiffible. From the first year of the Cali-yuga to the birth of Budd'HA they reckon also 1002 years, including 23 generations: now Budd'HA was born 618 B. C. This places the first year of the Cali-yuga 1564 before the Era of VICRAMADITYA.

From the first year of the Cali-yuga to the death of PURANJAYA, they reckon 1000 years, as we have seen before: add to this,

for the Samuel	AGAVAT,	From the V	ISHNII	Purán
for the Sunacas, the Sisunacas, Maha nanda &c.	138 360		1	128 362
to CHANDRAGUPTA's reign	n,100	the me	2 - 67 - 4 10 m	100
before CHRIST,	1598 315			590 315
Subtract,	1913 56		1	905 56
Before VICRAMADITYA,	1857	uel constant	18	840

IT appears, that me Sunacas, and Si-sunacas were two branches of the same family: the first sat on the throne 128 years: but the sum of the reigns, in both dynasties, amounted to 362. MAHA-NANDA, and the SUMALYADICAS reigned only 40 years, instead of 100: and the whole may stand thus corrected, from the first year of the Cali-yuga, 1000 down to the accession of CHANDRAGUPTA, or 315 years 40 > B. C. There are 52 generations; and reigns mixed together, 1402 I to fill up that space, or about 31 years for one reign, which calculation is too large. These different computations of the Era of the Cali-yuga from the Puranas, with the feveral corrections which they are susceptible of, I thought of the greatest importance to lay before the learned. In the two accompanying lifts, the numbers, particularly in the beginning, are obviously too large, either for generations, or reigns: and of courfe, they must be rejected. It is remarkable, that these numbers are pretty regularly decreasing, from 98 for a reign, in the beginning, down to Vicramaditya, to three or four years. This regular decrease is equally inadmissible.

The first king of Magad'ha was JARA-SAND'HA: for that country began to be known, under that name, in his time; being before denominated Cicata. But JARA-SAND'HA was not the first king of Cicata; his ancestors had ruled over it for many generations, at least from the time of VRIHADRAT'HA, or VRIHAT-RAT'HA: from whom, the whole dynasty, as far down as Puranjaya, or Ripunjaya, is denominated the dynasty of the Bàrhadrat'has, in a derivative form. They were descended from Puru, the fifth son of Yayati, the son of Nahusha. We are told, in general, that Yayati divided his empire, the whole world, amongst his sive sons. To Puru, the youngest, and his savourite, he gave India, or

the middle part: to the others, who had incurred his displeasure, he allotted inferior kingdoms. To YADU, the ancestor of CRISHNA, he gave the South, by which they understand the Deccan, or peninsula. The North to ANU, the East to DRUHYA and the west to TURVASU: but this division does not agree with what we read in the Harivansa. Besides, as the Brahmens acknowledge, that they are not natives of India, but came from the N. W. and that Canoge was their first settlement; their ances. tors, at that early period, furely could not yet have conquered India, or even made any fettlement in it. The offspring of TURVASU, fo far from fettling in the west, is declared, in the Harivansa, to have settled in the fouthern parts of India; and in the tenth generation, including their Sire, four brothers divided the peninfula among themselves. Their names were PANDYA, CERALA, CÓLA and CHÓLA: and this division obtains, even to this day. Cola lived in the northern parts of the peninfula, and his descendants are called Coles, and Collers to this day: and they conceive themselves, with much probability, to be the aborigines of India, to which they give the name of Coller or Colara. Hence, we read in PLUTARCH, that the Ganges was called formerly the Calaurian river, and the same author mentions a Calaurian, or Hindu, and a handsome damfel, called DIOPETHUSA, who was also a Calaurian, or native of India, or country bordering upon the Calaurian river. (1)

In the same manner, we find the posterity of Anu dividing the eastern parts of India, among themselves, under the names of Anga, Banga, Calinga, Pundhra (now Tamlook) and Undhra (or Orissa): and we are always reminded, that Crishna and the Pandavas, came from the west: and their first settlements were on the banks of the Hydaspes or Vitastá, the country bordering upon which, is called, by Ptolemy, the country of the

<sup>(1)</sup> Plutarch. de fluminibus.

PANDOVI, OF PANDAVAS. CRÍSHNA had a small estate, near Dwáraca, in Gurjarát, where he generally lived.

THE first kings of the Dynasty of the Barhadrat'has being omitted in the table, are given here from the Harivansa. The samous UPARICHA-RA was the fixth, in lineal descent, from Curu; and his son was

VRIHADRAT'HA
CUSHAGRA
VRISHABHA
PUSHPAVÁN
SATYASAHITA
URJA
SAMBHAVA
JARÁ-SAND'HA

JARA-SAND'HA, literally old SAND'HA OF SAND'HAS, was the lord paramount of India or Mahá-Rajà; and in the spoken dialects Mà-Raj. This word was pronounced Morieis by the Greeks; for Hesychius says, that Morieis signifies king in India: and in another place, that Mai in the language of that country, signified great. Nonnus, in his Dionysiacs, (1) calls the lord paramount of India, Morrheus; and says, that his name was Sandess, with the title of Hercules. Old Sand'ha is considered as a hero, to this day in India; and, pilgrimages, I am told, are yearly performed to the place of his abode, to the east of Gayá in south Bahar. It is called Raja-Griha or the Royal mansson, in the low hills of Ràja-giri or the Royal mountains: though their name, I suspect to be derived from Raja-Griha. The Dionysiacs of Nonnus are really the history of the Mahá Bhàrata or great war, as we shall see hereafter. A certain Dionysius wrote also a his-

<sup>(1)</sup> Nonn. Dionys. lib. 34. v. 197.

remaining, it appears, that it was nearly the same with that of Nonnus, and he intitled his work Bassarica. These two poets had no communication with India; and they compiled their respective works, from the records, and legendary tales of their own countries. Nonnus was an Esyptian, and a Christian. The Dionysiacs supply deficiencies in the Mahá-Bhárata in Sanscrit; such as some emigrations from India; which, it is highly probable, took place in consequence of this bloody war.

JARA-SAND'HA erected a Jaya-sthamba, or pillar of victory, at Benares. According to tradition, it was destroyed by the Musulmans, and the capital, the only remains of it, has been shewn to me. It stood near the Ganges, at the Gaut, or landing place, of JARA SAND'HA, as it is called to this day. These pillars are pretty numerous along the banks of the Ganges; and most of them are of very great antiquity. They were known to the Greeks, who called them the pillars of Bacchus.

The accession of Chan'dra-Gupta to the throne, and more particularly the samous expiation of Chanacya, after the massacre of the Sumályas, is a samous Era in the Chronology of the Hindus: and both may be easily ascertained, from the Puránas, and also from the Historians of Alexander. In the year 328 B. C. that conqueror deseated Porus; and, as he advanced, (1) the son of the brother of the petty king in the eastern parts of the Panjáb, sled at his approach, and went to the king of the Gangaridæ, who was, at that time, king Nanda of the Puránas. In the Mudra-ráchasa, a dramatic poem, and by no means a rare book, notice is taken of this circumstance. There was, says the author, a petty king of Vicatpalli, beyond the Vindhyan mountains, called Chandra-dása, who, having been deprived of his kingdom,

<sup>(1)</sup> Diodor. Sic. lib. XVII. c. 91. Arrian alfo &c.

by the YAVANAS or Greeks, left his native country, and affuming the garb of a penitent, with the name of Suvidha, came to the metropolis of the emperor NANDA, who had been dangerously ill for fome time. He feemingly recovered: but his mind and intellects were strangely affected. It was supposed, that he was really dead, but that his body was reanimated by the foul of fome enchanter, who had left his own body in the charge of a trufty friend. Search was made immediately, and they found the body of the unfortunate dethroned king, lying as if dead, and watched by two disciples, on the banks of the Ganges. They concluded, that he was the enchanter, burned his body, and flung his two guardians into the Ganges. Perhaps the unfortunate man was fick, and in a state of lethargy, or otherwise intoxicated. Then, the prince's minister assassinated the old king, foon after, and placed one of his fons upon the throne: but retained the whole power in his own hands. This, however, did not last long; for the young king, difliking his own fituation, and having been informed, that the minister was the murderer of his Royal father, had him apprehended, and put to a most cruel death. After this, the young king shared the Imperial power, with seven of his brothers; but CHANDRAGUPTA was excluded, being born of a base woman. They agreed, however, to give him a handsome allowance, which he retuled sich indignation : and from that moment, his eight brothers refolved upon his destruction. CHANDRAGUPTA sled to distant countries: but was at last seemingly reconciled to them, and lived inthe metropolis: at least, it appears that he did so; for he is represented, as being in, or near, the Imperial palace, at the time of the revolution, which took place twelve years after. Porus's relation made his escape

to Palibothra, in the year 328 B. C; and in the latter end of it. NANDA was then affaffinated in that year; and in the following, or 327 B. C. ALEXANDER encamped on the banks of the Hyphafis. It was then, that CHANDRAGUPTA vifited that Conqueror's camp; and, by his loquacity, and freedom of speech, so much offended him, that he would have put CHANDRAGUPTA to death, if he had not made a precipitate retreat, according to JUSTIN (1) The eight brothers ruled conjointly twelve years, or till 315 years B. C. when CHANDRAGUPTA was raifed to the throne, by the intrigues of a wicked, and revengeful prieft, called CHANACYA. It was CHANDRAGUPTA, and CHANACYA, who put the Imperial family to death; and it was CHANDRAGUPTA, who was faid to be the fourious offspring of a barber: because his mother, who was certainly of a low tribe, was called MURA; and her fon of course, MAURYA in a derivative from; which last fignifies also the offspring of a barber: and it feems, that CHANDRAGUPTA went by that name, particularly in the west: for he is known to Arabian writers by the name of Mur, according to the Nubian Geographer, who fays, that he was defeated and killed by ALEXANDER: for thefe authors supposed, that this conqueror crossed the Ganges; and it is also the opinion of some ancient Historians in the west.

In the Cumáricá-c'handa, it is faid, that it was the wicked Chanacya, who caused the eight royal brothers to be murdered; and it is added that Chanacya, after his paroxism of revengesul rage was over, was exceedingly troubled in his mind, and so much stung with remorse for his crime, and the effusion of human blood, which took place in consequence of it, that he withdrew to the Sucla-Tírt'ha, a samous place of wor ship near

<sup>(1)</sup> Lib. xv. c. 4.

the sea on the bank of the Narmadá, and seven coss to the west of Baroche, to get himself purified. There, having gone through a most severe course of religious austerities and expiatory ceremonies, he was directed to sail upon the river, in a boat with white sails, which, if they turned black, would be to him a sure sign of the remission of his sins; the blackness of which would attach itself to the sails. It happened so, and he joyfully sent the boat adrist, with his sins, into the sea.

This ceremony, or another very similar to it, ( for the expense of a boat would be too great,) is performed to this day at the Sucla-Tirtha; but, instead of a boat, they use a common earthen pot, in which they light a lamp, and send it adrift, with the accumulated load of their sins.

In the 63d fection of the Agni-purana, this expiation is represented in a different manner. One day, says the author, as the Gods, with holy men, were affembled in the presence of INDRA, the sovereign lord of heaven, and as they were conversing on various subjects, some took notice of the abominable conduct of CHANACYA, of the atrocity and heinousness of his crimes. Great was the concern and affliction of the celestial court, on the occasion; and the heavenly monarch observed, that it was hardly possible, that they should ever be expiated.

ONE of the affembly took the liberty to ask him, as it was still possible, wont mode of expiation was requisite, in the present case? and INDRA answered, the CARSHAGNI. There was present a crow, who, from her friendly disposition, was surnamed MITRA-CACA: she slew immediately to CHANACYA, and imparted the welcome news to him. He had a pplied in vain to the most learned divines: but they uniformly answered him, that his crime was of such a nature, that no mode of expiation for it could be found in the ritual. CHANACYA immediately performed the

CARSHAGNI, and went to heaven. But the friendly www was punished for her indifferetion; she was thenceforth, with all her tribe, forbidden to ascend to heaven; and they were doomed, on earth, to her upon carrion.

THE CARSHAGNI confifts in covering the whole body with a thick coat of cow dung, which, when dry, is fet on fire. This mode of expiation, in desperate cases, was unknown before; but was occasionally preformed afterwards, and particularly by the samous Sancaracharya. It seems that Chandragurta, after he was firmly seated on the imperial throne, accompanied Chanacya to the Sucla-tirtha, in order to get himself purified, also.

This happened, according to the Cumáricá-C'handa, after 300 and 10 and 3000 years of the Cali-yuga were elapsed, which would place this event 210 years after Christ. The fondness of the Hindus, for quaint and obscure expressions, is the cause of many mistakes. But the ruling epocha of this paragraph, is the following, "after three thousand and one hundred years of the Cali-yuga are elapsed (or in 3101) will appear king Saca (or Salivahana) to remove wretchedness from the world." The first year of Christ answers to 3101 of the Cali-yuga, and we may thus correct the above passage; "of the Cali-yuga, 3100 save 300 and 10 years being elapsed (or 2790) then with Christian go to the Sucla-Tirt'ha."

This is also confirmed, in the 63d and last section of the Agni-purana, in which the expiation of Chanacya is placed 312 years before the first year of the reign of Saca or Salivahana, but not of his Era. This places this samous expiation 310, or 312 years, before Christ; either three or five years after the massacre of the Imperial family.

My Pandit, who is a native of that country, informs me, that CHA-MACYA's crimes poentance and atonement are the fubject of many pretty legendary ales, in verse, current in the country; part of some he repeated to me.

Soon after, CHANDRAGUPTA made himself master of the greatest part of India, and drove the Greeks out of the Panjáb. Tradition says, that he built a city in the Deccan, which he called after his own name. It was lately found, by the industrious and active Major Mackenzie, who says that it was situated a little below \$\hat{Si} i \hat{Salam}, or Purwutum, on the bank of the Crishna; but nothing of it remains, except the ruins. This accounts for the inhabitants of the Deccan being so well acquainted with the history of Chandragupta. The authors of the Mudrá-Rácshasa, and its commentary, were natives of that country.

In the mean time, Seleucus, ill brooking the loss of his possessions in India, resolved to wage war, in order to recover them: and accordingly entered India, at the head of an army: but sinding Chandraguera ready to receive him, and being, at the same time, uneasy at the increasing power of Anticonus and his son, he made peace with the emperor of India, relinquished his come and the counced every claim to them. Chandraguera made him a present of the elephants; and, in order to gement their frendship more strongly, an alliance by marriage took place between them, according to Strabo, who does not say, in what manner it was effected. It is not likely, however, that Seleucus should marry an Indian princess; besides, Chandraguera, who was very young, when he visited Alexander's camp, could have no marriageable daughter at that time. It is more probable, that Seleucus gave him his natural

daughter, born in Perfia. From that time, I suppose, CHANDRA-CUPTA had constantly a large body of Grecian troops in his service, as mentioned in the Mudrá-Rácshasa.

IT appears, that this affinity, between Seleucus and Chandra-Gupta, took place in the year 302 B. C. at least, the treaty of peace was concluded in that year. Chandragupta reigned four and twenty years; and, of course, died 292 years before our Era.

III. AFTER the decline, and ultimately the fall of the Imperial house of Nanda, and of the Báli-putras, the most illustrious family, that sat afterwards upon the Imperial throne of India, was that of the And'hras. From the Báli-putras, the inhabitants of the Gangetic Provinces were denominated Páli-bothras, and Páli-potras: in the same manner, they were called, after the And'hras, the And'hra Indians; these are the Andre Indians, which lived along the banks of the Ganges, according to the Peutingerian Tables.

THE AND'HRA dynasty lasted 456 years: in the Váyu-purana, it is said 418: but some copies have 458. Be this as it may, the general opinion is, that it lasted 456 or 458 years. These deducted from 648, there remains 192, or 190, for the year of the inauguration of its first king, called Balin, Balinita or Baleya, Csheshmaca, Sindhuca, Sipraca, Sudraca, and Suraca. In the Cumarica-Chanda, it is declared, that, after 3300 years, save 10, of the Gali-yuga were elapsed, a great king, called Sudraca, would reign in Charchita: the name of his metropolis is however omitted in many copies. Sundraca, Sipraca, or Sindhuca began then his reign, in the year 191 of the Christian Era.

FROM CHANDRAGUPTA's accession to the throne, 315 B. C., to the year 190 A. C, there are 505 years: but during this period, the Chronological particulars, from the *Puránas*, are not to be easily reconciled with the general outlines which I have traced out. According to the *Puránas*, there were ten *Maunya* kings, who ruled 139 years; these were succeeded by the *Sunga* dynasty, consisting of ten kings also, and Vicramamitra was the eighth of that dynasty.

THE next was that of the Canwas, confisting of four kings; then SUDRACA succeeded to the throne, in the year 191. Thus we have six reigns, the last of the Sunga dynasty, and the four Canwas only, to fill up a space of 246 years; which is impossible.

These Canwas are said to have reigned 345 years; which is still more extravagant. It is obvious, that there is some gross error in the context; to rectify which, in a satisfactory manner, can hardly be expected. It is my humble opinion, that a dynasty is omitted here; and that dynasty is that of the seven And'hras, mentioned in the Brahmánda, Váyu, Bhágavata and Vishnu Puránas; but out of its place. In some Puránas, the And'hra dynasty is made to consist of seven, and in others, of nine, kings. In one it is faid, that they reigned 300 years; in another only 250 years.

THE AND'HRAS made a most conspicuous figure, on the banks of the Ganges, for above 800 years; under three distinct dynasties. The first was called, simply, the And'hra dynasty; and its kings were considered as pure and genuine And'hras. The second dynasty is that of the And'hra-Jaticas, or of the family, or tribe, of the And'hras, but a spurious branch of it. The third is that of the And'hras.

BHRITYAS, or servants of the And'hra sovereigns; who, after the

death of Puloma, feized upon the Kingdom, and divided it among themselves. SIPRACA, or SURACCA, was the first of the AND'HRAJATI. CAS; and the venerable PULOMA was the last. In the Ruminas no place is affigned, in the chronological lifts of the kings of Manadha, to the first dynasty of the genuine AND'HRAS; except in one, in (which they are placed immediately after Puloma, who, it is well known, was fucceeded by the fervants of the And'HRAS, not by the feven genuine AND'HRAS. In the Bhagavata, we read only, that the feven AND'HRAS would reign over the land. In the Vishnu-purana, they are not mentioned, unless they be the same with the Cosalas or Causalas. In the Brahmanda, they are introduced between PULOMA, and the AND'HRA BHRITYAS, in an obscure manner: and there, the nine AND'HRAS, with the AND'HRA-JATICAS, are joined together, in an immediate order of fuccession; and, it is added, that there were thirty-fix of them; nine genuine AND'HRAS, and twenty-seven, belonging to a spurious branch of the same family: but it is not said, which of them ruled first. Now, it is universally acknowledged, that the AND'HRA-BHRĬTYAS fucceeded PULOMA'; and, the fact being testified by the annals of China, no doubt can remain concerning this circumstance; and the seven, or nine, genuine AND'HRAS, must of course be placed before the spurious branch, and immediately after the Can'wa dynasty. Thus, we shall have either 13 or 15 kings, to fill up a space of 246 years. The occasion of this omission is, I believe, that the first kings of the AND'HRA, and AND'HRA-JATICA dynasties, were prime miniflers, and both put their masters to death, and usurped their throne. That SISUMAN, the last of the Canwa dynasty, was put to death by his prime minister, an AND'HRA, is acknowledged by every Historian: and in the

(1) Mahá-bhárata, it is declared, that MAHA-CARNI, or SUDRACA, usurped the throne, from his master, the king of Magad'ha; whom he confined, in a place, amid waters; from which circumstance, the venerable old man was called, by way of ridicule, Ambu-vicha, It is added, that the old king was blind and deaf.

The famous Sri-Carna-Deva, in his grant, lately found at Benares, declares, that he was of the Haihaya tribe, who lived originally on the banks of the Narmadá, in the district of the western Gau'da, or Gaur, in the province of Málava. Their residence was at Chauli-Mahéswara, a famous place of worship, to this day, on the Narmadá; and built by one of his ancestors. The western Gaur was also the native country of a most respectable tribe of Brahmens, called Sandila; who, for several generations, acted as prime ministers to the Emperors of the And'hra tribe. That this was their native country, is attested by Major Mackenzie, in his account of the kings of Warangal. One of the thirty-six musical modes in India, and belonging to the superior Raga, or mode, called Málava, is denominated Gaudi, from the country of Gauda, which was part of the province of Málava.

THEY afterwards were called AND'HRAS, from the country of And'hra, on the coast of Coromandel, and extending from Nellore to the Godaveri; of which they became kings: but in what manner, and when this was effected, we do not know. They were called AND'HRAS in the time of the Canwa Dynasty, about the beginning of the Christian Era. At that time, says PLINY, the AND'HRA, ANDAR & kings, were very powerful in India. They had no less than thirty fortified cities, with

<sup>(1)</sup> Rājagrīhē nagarē Māgadhānām Rājā Ambuvícha sa Caranaih chacshushādihinah. Tafyāmāt yō mahā Carni iswary rajānām avamanyate amātoádhina iti carnōtih.

an army of 100,000 men; and 1000 elephants. Their Cavalry confished only of 2000 men. SRI-CARNNA-DEVA takes the title of king of Tri-Calinga, or of the three shores, to the east and west, and to the south of India.

THERE was another CARNA, mentioned in the . Maha-Bharata, (section of the Raja-Dharma) to whom JARA-SANDHA gave the city of Malini, with the country round it, now the diffrict of Bháglepoor, called from him, the country of Carna. Maliní, in lexicons, is said to be the same with Champá-nagari, now Champá-nagar in that country. This CARN'A was the fon of CANTÍ, the wife of PANDU, who conceived by the fun; and, of courfe, CARNA is an incarnation of the fun. Tradition fays, that the little kingdom of CARNA, now the Bhaglepoor district, remained, for many generations, in the possession of the descendants of CARNA. This CARNA is totally unconnected with our CARNA, who likewise is of divine extraction, as one of his ancestors, CARTAVÍRYA, was conceived in a miraculous manner; and, to this day, divine honours are paid to him, in the west of India. Hence, they all affumed the titles of SRi and DEVA, as in SRi-CARNA-DEVA, the fortunate and divine CARNA, and in SRI-DEVA-PALA-DEVA, whose original name was DEVA-BALA answering exactly to the Greek Theo-philos, in which, the word Philos is taken in a paffive fense, as well as PALA, in Sanscrit, in the word DEO-PALA. In the compound SRI-DEVA-PALA-DEVA, the second DEVA, is no part of the name, but a title. There is a living instance of such an hereditary divinity, near Poona, of which an interesting account is given, in the feventh Volume of the Afiatick Researches, in the family of MURABAGOSSEYN, whose descendants add the epithet of Deva to their proper names, and the chief of the family is confidered as a God. There is then every reason to believe that GRÍ-DEVA-PÁLA-DÉVA claimed equally a divine origin: and as he was originally from the same country Gauda, in Malwa, it is probable, that he belonged to the same family.

•FOR by Gauda we must not by any means understand Bengal: which, as far as I can recollect, is never thus called in any book I ever met with. Its metropolis is indeed called Gaudi from the Goddess of that name, who was worshipped there: hence it is with propriety called Gaudingosha (Corygaza) by PTOLEMY. But Gauda, as the name of a country, does not seem to be in the least connected with that of the Goddess Gaudi.

In the names of fix kings, mentioned in the grant found at Mongir, we find the adjunct pála, which feems to be characteristic of that branch of the HAIHAYA tribe.

THE HAIHAYA tribe, to which the AND'HRA family belongs, claims, for their ancestor, HAIHAYA, the son of the Godlike YADU, and the grandson of NAHUSHA, or NOAH: MAHISHMAN, the sourth in descent from him, built Mahishmati, now Chauli-mahes wara on the Narmada. The sourth descendant of the last mentioned was CRITAVIRYA, whose son was the samous CARTAVIRYA, to whom divine honors are paid to this day.

THERE As a dynasty of HAIHAYAS, mentioned in the Puranas, who have no connection with the AND'HRA dynasty; and they are introduced as possessed of some district, the fituation and name of which are omitted; but it was probably the country of And'hra in the Deccan. A powerful tribe of these HAIHAYAS, according to the Puranas (as

I have been lately informed,) lived in the countries on the banks of the Ganges, in the time of king SAGARA; but in confequence of their ill behaviour to him and his son, he was obliged to drive them out of India, except a few, who held the conduct of their relations in abhorrence. Tradition says, that they withdrew to western countries, where it is added that they were better known under the names of Parasicas, Asva-muc'has or horse-saced, and that of Asva pati for the title of their kings. This traditionary legend originates probably from their name, HAIHAYA, implying horses, or horsemen: PLINY mentions a nation in Persia called HYI.

THE CARNA of the Maha-Bharata, to whom JARA-SAND'HA gave the country of Bhaglipoor, cannot be the fame, who dethroned the king of Magad'ha; for this king was blind and deaf, and the ufurper was his prime minister: but JARA-SAND'HA was in the full enjoyment of his bodily faculties, when he was put to death by CRISHNA, or rather BHÍMA. The first is called CARNA, and the usurper MAHA-CARNI. This last is famous, all over India, and even as far as Malaca, and the adjacent islands, according to MR. MARSDEN; who says, that they have legends there, mentioning MAHA-CARNA, and a lion possessing surprising powers, and shooting arrows at him. This lion they call SINGA-SACTEE. (SINHA-SACTI,) and SINGA-RAJOON (SINHA-RAJA) (1) He is mentioned also in the grant of the king of Tagara, inserted in the first volume of the Afiatic Researches, and his munificence and liberality are there highly praised King Bhoja, in his address to Raja Munja, confiders him and VICRAMADITYA as the two most powerful kings that ever existed. He is, for that reason, called ADITYA, and also RAJA-VICRAMA:

<sup>(1)</sup> Afiat. Researches Vol. 4. p. 22.

and in the Agni-purana, Vicramaditya. the fon of Gand'ha-Rupa, is positively declared to be Carnansya, or descended from Raja-Carna. This is, of course, the Vicramaditya mentioned by Ferishta, as contemporary with Sapor king of Persia, who ascended the throne in the year 241: and in some lists Suraca is said to have reigned 56 years. Ferishta knew of no other Vicramaditya, but this: and some missionaries, who have fixed the death of Vicrama, and the beginning of his Era, in the year 250, must have been missed, by legends, wholly relating to this Vicramaditya.

HE is mentioned, in the Vrihat-cathá, under the name of Sudraca, or Suraca, among the several worthies, dignified with the title of Vicramaditya. In another section, he is introduced, as the prime minister of an emperor of Pátalí-putra, or Patna, who was labouring under various infirmities: when he was advised, by a mischievous Bráhmen, to avail himself of these circumstances, and usurp the throne; which he did, according to the Puránás and the Mahábhárata.

In the Bhágavata, he is called Balihica, or rather Balihita; in the Vishnu-purána, Sipraca; in the Brahmán'da Ch'hesmaca; in the Váyupurána, Sind'huca: he was the first of the And'hra-jativas. In the Cumáricá c'han'da he is called Súdraca, and in some copies Súraca: and the first year of his reign was the 3291 of the Caliyuga. In the Maha-Bhárata, he is called Maha-Carni, king of kings; and the name of his sovereign, whom he dethroned, but did not put to death, was Ambu-vícha. In his grant, sound lately at Benares, he calls himself Srí-Carnna-Déva, king of Tri-Calinga, or India.





A FEW years ago (in 1801,) this grant was found, at the bottom of and old well filled with rubbish, in the old fort of Benares. It is engraven, upon two brass plates, joined by a ring, to which is affixed the Imperial feal. It is of the fame fize, nearly, and in the fame shape, with that found at Mongir. The writing is also the lame, or at least without any material deviation. The Imperial feal is about three inches broad: on it, in bas-relievo, is PARVATÍ with four arms, fitting, with her legs croffed; two elephants are reprefented, one on each fide of her, with their trunks uplifted. Below is the Bull, NANDI, in a reclining posture, and before him is a basket. Between PARVATÍ, and the Bull, is written SRÍ-CARNNA-DEVA. The grant is dated the fecond year of his new Era, and also of his reign, answering to the Christian year 192. According to the Puranas, hereigned twenty three years, and was fucceeded by his brother CRISHNA, who reigned eighteen; and his fon was SRI-SAT CARNI, or SRI-SAT-. CARNA, who reigned 56 years. This furely could not be his name, as it fignifies the prosperous seven CARNIS.

The ancestors of Sri-Carnna-Deva, mentioned in the grant; were, first, his father Gangeya-Deva, with the title of Vijaya-Cantaca: he died in a loathsome dungeon. He was the son of Cooalla-Deva, whose father was Lacshmana-Raja-Deva. Maha-Carni, according to tradition, resided at a place called Jangirah, near Sultangunj, and about half way, between Mongir and Bhaglepoor. Therefore remains were shewn to me of his palace, on the site of which an Indigo sactory now shands. He is called there Sri-Carneswara, or simply Carneswara, persectly answering to Sri-Carna-Deva. The opposite rocks, in the

Ganges, were known by the name of Carnagiri, or the hill of CARNA. There lived the old king of Magad'ha, blind and deaf; and in that state of infirmity, this was certainly a very comfortable place for him, to live in. It does not appear, that SRI-CARNA-DEVA used him ill: certainly, the good old man could no longer act, or appear as a sovereign. Be this as it may, from that circumstance the old king was nicknamed Ambu-vicha, or he who resides in the middle of waters.

THERE was also another king of Magadha, called CARNA with the firname of DAHARIYA; because he generally resided at a place called Dahára, between Mongir and Surujgurh; and inserted in Major RENNELL'S atlas. This CARNA is mentioned in an Epic Poem, entitled the wars of PRIT'HU-RAJA, in the spoken dialects; and part of which is in my possession. PRIT'HU-RAJA waged war against SULTAN GORI, in the year 1192 of the Christian Era. The king of Magad'ha is called there, CARNA DAHARA, and he accompanied the Emperor JAYA-CHANDRA, in his expedition against Ceylon, which he undertook, under pretence of a pilgrimage to worship the famous statue of CARTICEYA SWAMI. At the head of a numerous army, he marched from Yóginí-pura, or Dillí, for thus the last is spelled throughout the poem. The general rendezvous of the vaffal kings was to be at Govál-C'handa, said to be Gowel-ghur, near Ellichpoor. He then sent a message to Vira-BHADRA, king of Singala, (or Ceylon,) to prepare every thing for his reception; being a vaffal of the empire. VIRA-BHADRA submitted with good grace; and JAYA-CHANDRA went to Ceylon, worshipped CARTICEYA-SWAMI, and visited the famous fort of Sancara-griha, near the seashore, and saw there the statues of RAMA and

RAVANA. I am also informed, that this CARNA had a daughter, who lived in one of the royal feats, near Colgong; and was feduced by \_ the poet CHAURA, whose works are still extant. I have mentioned before, that the And'hra princes, who ruled on the banks of the Ganges, are divided into three classes, the dynasty of the genuine AND'HRAS, confifting of nine kings; then the Andhra-játiyas, or of the family of the AND'HRAS: and lastly the And'hra-bhrityas, or servants of the Ana'hra princes, who feized upon the government. It is not an eafy matter to ascertain, whether the AND'HRA dynasty is to be placed before, or after the And'hra-jatiyas. I have placed it before, first to fill up a chasm in the list of the emperors of India: in the second place, it is univerfally agreed, that the AND'HRA-BHRĬTYAS usurped the throne, immediately after the death-of Puloma, the last of the And'hra-játiyas: and this last circumstance is corroborated by the testimony of Chinese Historians, according to MR. DEGUIGNES: Besides, in the Brahmanda, the And'HRAs and And'HRA-JATIYAS are confidered but as one dynasty, consisting of thirty-fix kings: from which, subtracting the nine AND'HRAS, remain twenty-seven kings, which is the exact number of kings in the dynasty of the AND'HRA-JATIYAS, resulting from four lists compared together.

NOTHING is related of the kings of this dynasty, except of the last, called Puliman, Puloma, Lomadi, and Pulomarchii, or Puloma the pious Rishi. He was a great conqueror, and put an end to his life in the holy stream of the Ganges.

In an inscription found at Budd'ha-gáyá, and inserted in the first Volume of the Asiatick Researches, mention is made of three kings of Magad'ha, emperors of India. The first, called YAJNYA-VARMA, was a

most religious prince, and, taken up with the performance of religious duties, he disturbed not the powerful ocean. His son SARDULA-VARMA, though religiously inclined, was a great warrior: and he conquered the world or India: and he terminated his brilliant carrier, by the voluntary deed of death, near the uprifing ocean; probably at old Ságar behind Fulta near Moorgatcha, in MAJOR RENNELL's atlas. His fon was also a pious prince, called ANANTA-VARMA. YAJNYA-VARMA appears to be the same with YAJNYASRI in the accompanying lists, and the great grand His name YAJNYASRI, as mentioned by the father of PULOMA. Pauranics, implies that he was fortunate, through the constant performance of the YAJNYA. YAJNYA-VARMA fignifies the warrior, who delighted in the performance of the YAJNYA: and had he been of the facerdotal class, they would have called him YAJNYA-SARMA. His fonconquered the refractory princes through India, or the world: he was then entitled to the epithet of Vijaya, or the great conqueror: and fuch is the name of the fon of YAJNYASRI, in the Puranas, where ANANTA-VARMA is called CHANDRASRI, because, being a religious prince, he was probably addicted to the worship of the moon. The Chinsfe Historians mention an emperor of India, called YEUGNAI, which name is the same with YAJNYA, generally pronounced YAGNYA. As he lived in the year 408, the times do not coincide; but this was probably the title of some other pious prince, Puliman, Puloma, or LOMA is called POULOMUEN, HOULOMIEN, and HOULOMIENTO, by the Chinge. According to Mr. Deguignes, he conquered all India, in the year 621, and died in 648. From him, India was called Poulomuen-Koue, or the country of PULIMAN, by the Chinese: and the And'hra princes were fo famous, that the inhabitants of the Gangetic Provinces were called, in the west, the And'hra Hindus, or André Indi, according to the Peutingerian Tables, in which they are placed along the banks of the Ganges. After the death of Puliman, the whole country was thrown into confusion, according to Deguienes. Olonachun, one of the chief officers, (perhaps Calyana-chandra,) seized upon the Gangetic Provinces, and hearing that the Embassadors, from Taitsong, Emperor of China, to king Puliman, were coming with Hiuntse, the chief of the Embassy, he sent troops to seize them: and Hiuntse effected his escape, with much difficulty, to Tibet; where Yetsonglong-tsan, king of that country, gave him an army, with which Hiuentse re-entered the Gangetic provinces, deseated the usurper, and took him prisoner.

FROM the death of Puliman, we may date the fall of the empire, though not of the kingdom, of Magadha, or fouth Bahar, in the year 648. There were Maharajas, or Emperors, at Canoge, in Gurjarat, and other parts of India. Anu-Gangam, or the Gangetic Provinces, was parcelled out, among several petty kings, such as the kings of Magadha, (or south Bahar;) Maithila (now Tirhoot;) Saceta (Oude,) and Benares: the kings of Carna-desa formerly Anga; (Carna-Daharya, in the latter end of the twelfth century, was one of them). There were also kings of Tamralipta (or Tamlook in Bengal,) and one of them sent an embassy to China, in the year 1001; he is styled king of Tanmouielieou, by the Chinese.

The kings of Gaur became very powerful afterwards, and even conquered all the Gangetic provinces, at least as far as Benares. They affumed the title of Mahá-Rájás, even as late as the 15th century. It was then, that the town of Gaur (or Gauda) became the first city of that part of India: and this certainly accelerated the fall of Páli-putra; if it

\* (Al Willand wells Lai 12 last heig of mingrathing

Patna

existed then: and two rival cities, so near, or rather close to each other, could not exist together: and the vicinity of Gauda probably induced the large of Magadha to reside at Patna; and this, at so early a period, that even the name of the ancient capital is almost efficed from every record, and even from the remembrance of the Hindus.

THE emperor SRI-DEVA-PALA-DEVA boalls of his having humbled the Hunas a foreign tribe, who had invaded India, and are occasionally mentioned in the lifts of countries, and tribes, in India. They succeeded the Parthians, and seem, of course, to be the same with the Murundas, whose thirteen kings ruled in the northern parts of India, immediately after the Tusharas, or Parthians. These are the Morunda of PTOLEMY, who were masters of the whole country, to the north of the Ganges, from Delhi to Gaur in Bengal. They are declared, in the Puranas, to be Mlech'has, impure tribes, and, of course, they were foreigners. The same are called Maryanthes by OPPIAN in his Cynogetics (1), who fays that the Ganges runs through their country. Cosmas calls them white Huns, and relates, that, when he wrote, their king GOLLAS besieged a certain city, and that his elephants and horses drank up the water round it, and thus forced it to furrender. This has happened very often in the parched countries of Bicanere, and Jesselmere; and it does not even require a numerous army, to drink up the scanty waters of a few wells round a city; but then the besiegers, far from taking the town, are obliged to raise the siege, in the greatest distress. .

THE feven CARNAS, in despite of the Brahmanical tribes, are still famous all over India; and their memory held in the greatest venera-

<sup>(1)</sup> Oppian Cynoget. lib. 4. v. 163.

tion: and their fame reached even as far as the Peninfula of Malacca, where they have still poems mentioning CARNA, the Mahá Rájá, or emperor of India, according to MR. MARSDEN (2). These poems, if procurable, might possibly throw some light on the history of those kings. Among the Ano'HRA princes of this dynasty, there is one called GAUTAMI-PUTRA, or the fon of GAUTAMA, being supposed to be an incarnation of him. He appears to be only a BODHI-SATWA, a disciple, or spiritual son; an appellation of the same import, but more generally used in the western parts of India, and by the followers of BUDD'HA. It is foretold in the Cumáricá-c'handa, that after the year 3600 of the Cali-yuga, answering to the year 500 of our Era, a BUDD'HA would be king of Magad'ha, of the house of Hema, and a Chandra-vansi; and that, after reigning 64 years, he would afcend into heaven. This Bod'hi-fatwa, or fubaltern incarnation of BUDD'HA, or, in other words, BUDD'HA himself, the D'HARMA-RAJA, went to China, in the year 515 of our Era, where he is called D'HARMA: at Siam, and in the Peninfula, he is called POUTI-SAT, and POTI-SATU.

WE may consider Puliman as the last king of Magadha, at the same time emperor of India. After him appeared a powerful king called Visvasphatica, Visvasphurji, and Visva-sphani: his real name was Puranjaya. He expelled the Cshettris or the Barons, as being too troublesome; and exalted the lowest classes, such as the Caivarttas, boatmen and fishermen, the Pátics, the Pulindas &c. He was however a great, and powerful prince; and his dominions extended all over Anu-Gangam, or the Gangetic provinces.

THEN came a dynasty of nine kings, called the nine Nágas, or Nácas. These were an obscure tribe, called for that reason Gupta-

<sup>(2)</sup> Afiat. Resea ? hes. vol. 4, p. 227.

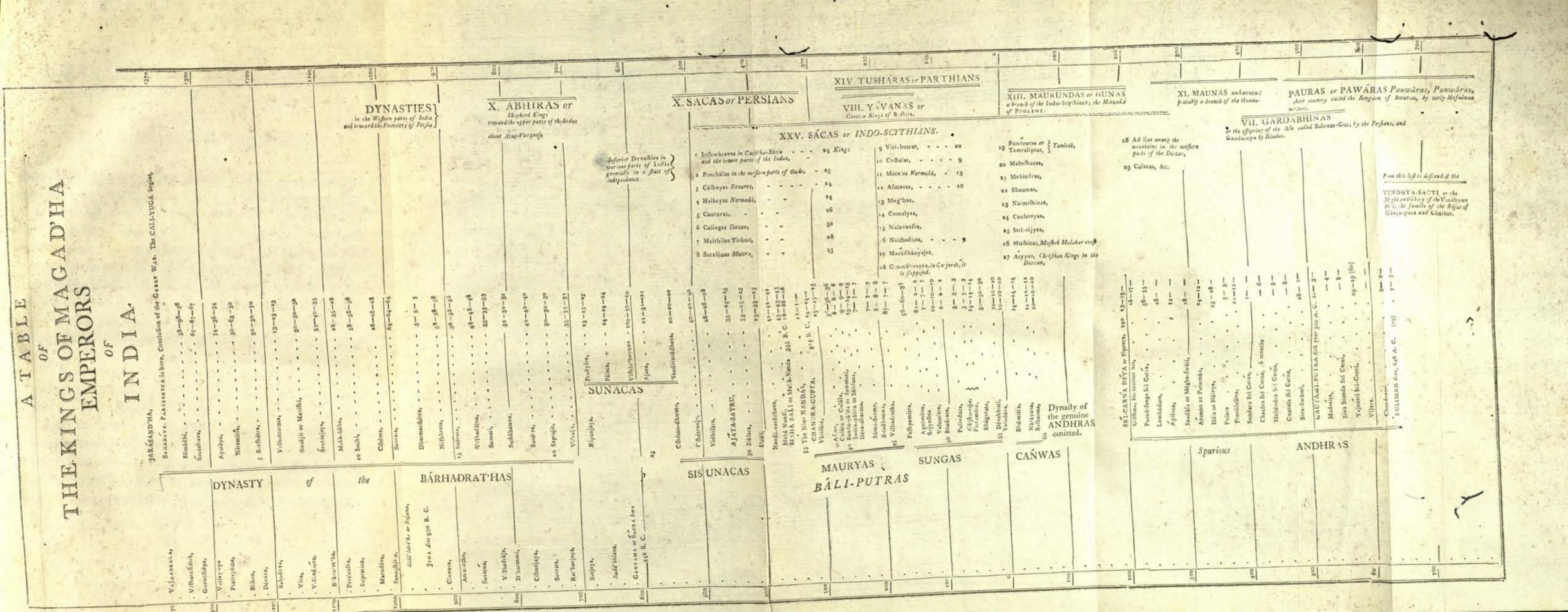
vánsas: there were nine samilies of them, who ruled independent of each other, over various districts, in Anu-Gangam; such as Padmávati (Patna; Captipurí (now Cotwall nine coss to the north of Gwalior;) Magadha (or Bahar;) Prayága, (or Allababad;) Sácéta, (or Oude,) and Benares. There is still a powerful tribe of the Nácás, on the banks of the Jumná and the Betwá-nadí. The Causalas or Pundhracas ruled in Tamralipta, near the sea shore, according to the Vishnu-purána. In other Puránas, we read the Causalas, or Andhras, which is inadmissible. The kings of Mauthila (or Tirhut,) are often mentioned: but the kings of Gaur (or Bengal) are never noticed; unless they be the Bángavas, once mentioned in the Brahmánda. The kings of Bengal are not mentioned in the book of the wars of Prithurraja in the twelfth century; whilst those of Oude, Tirhut, Bahar, Napál are noticed, as well as Bhója king of Udya-desa, now Orissa.

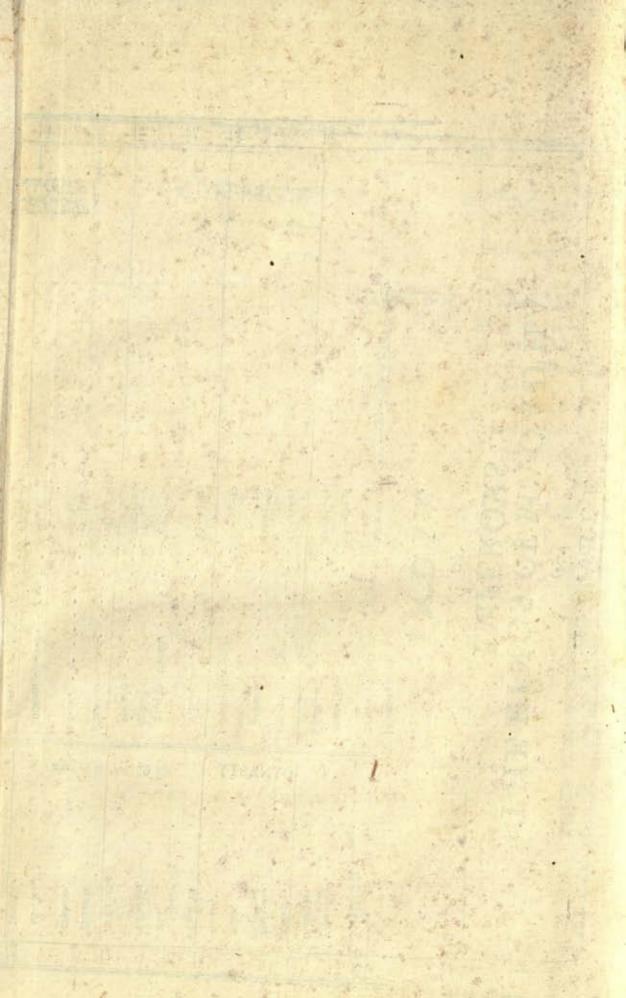
## A COMPARATIVE TABLE

# OF THE KINGS OF THE ANDHRA

DYNASTY DECITE TOTAL

Bhágavat	Vilhnu	Váyu and	Bratimánda
Balihita J	Sipraca 12 ha	Sindhuca - 23	Ch'hifmaca - 23
Crithna	Criffina 70		Crīfhna - 18
Srí-Sáta Carna	Srí-Sát-Carni	Sri-Sát-Carni	Sri-Sat Carni - 10
Paurnamáfa -	Purnotfanga	Purnótfanga - 18	Purnótfanga - 18
	Šáta Carni -	Sáta-Carni - 56	Sáta Carni - 56
Lambódara -	Lambódara -	Lambódara - 18	Lambódara - 18
Vivilaca	Vivilaca	Apílaca - 12	Àpflaca - 12
Megha-Swati -	Megha-Swáti	Seguid of the principal	Saudáfa - 18
Atamána	Putumán /	Putumábi24	Ábi Lastaga
mil 4 and a flor	Arifhta-Carna -	Nemi-Criffma 25	A Or to from
Háléya	Hála	Hála - 1	Scanda-Swati 28
Talaca	Pattalaca -	Pulaca - 5	Bhávaca - 5
Purishbhóru -	Pravillafena -	Puricashena 21	Pravillafena - 12
Sunandana -	Sundara Sát-Carna	Sáta-Carni 1	SundaraSátCarni T
Chacóra	ChacóraSát-Carni	Chacóra Sát-Carni	ChacóraSátCarni 6
Vataca		6 months	Mahendra Sát 1
E. C. C.		1289	Cuntala Sa Parni 8
Siva Swáti	Šiva Swáti -	Siva Swámi - 28	Swatishena - 3
Gómati-putra - Purlmán	Gómatiputra -	GAUTAMI-PUTRAZI	Yantramáti 34
Furiman	Pulimán		The Parent of
Madafirá	Sáta Carni	Wild Land	Sát-Carni - 29
Siva-scanda -	Sivafrí	Maria Maria Maria	Abi ~ 4
Yajnafri	Siva-fcanda -	and the second	SivascandaSáta ) 2
a ajmitt	Yajnafri	Yajnáfrí - 29	· Carni ] *
Vijaya	Vijaya	Sáta-Carni - 60	Yajnafri-Sáta 1.0
Chandravijaya	Chandrafri	Dandafri 2	Dandafri Sata
Lómadhi	Pulómárch'hi	D.16.	Carni J 3
	, and the same	rutoma 7	Pulómá 7





#### ESSAY IV

## VICRAMÁDITYA AND ŚALIVÁHÁNA:

THEIR RESPECTIVE ERAS, WITH AN ACCOUNT

OF THE

### BALA-RAYAS OR BALHAR EMPERORS.

and a foir file from Caulary via and as he formingly continue HE two periods of VICRAMADITYA and SALI-VAHANA are intimately connected; and the accounts we have of these two extraordinary personages are much confused, teeming with contradictions and abfurdities, to a furprifing degree. Their history is to be found in the Vicrama-charitra, the Sinhafana-Dwatrinsati, and the Vétala-pancha-vinsati, which have been translated from the Sanscrit into all the dialects of India; and the two last tracts are sections of the Vrihatcatha. The Vicrama-charitra is very scarce in the Gangetic provinces: but this deficiency is abundantly supplied, by ample extracts from that book, communicated to the Society, by Major Mackenzie of the Madras establishment. In general, the Hindus know but of one VICRA-MADITYA; but the learned acknowledge four; and when, at my request, they produced written authorities, I was greatly furprifed to find no less than eight or nine. Those who reckon four heroes of that name, agree only about two. The first VICRAMA was he, after whom the period is denominated; the second is RAJA BHOJA. Some suppose that SALIVAHANA was one of them, and that the fourth was the fon of Bhoja: whill others infift that this fast was either JAYA-CHANDRA, or PRITHWI-RAJA, who fell in the great war against the Mahabhatadicas, with lome particulars about Mounts age; and the whole is jumbled tage-

or Mufulmans, in the Mear 1192. Every Vicramadity is made too wage war against an antagonist called Salivahana, Salaban, and often denominated Nrisinha, Nagendra &c. except one, whose opponent's name was Maha-bhat, and that of his followers Mahá-bháta-dicas, that is to say Muhammed and the Muhammedans.

VICRAMADITYA made a desperate tapasya, in order to obtain power and a long life from Cari-Devi, and as the feemingly continued deaf to his intreaties, he was going to cut off his own head, when she appeared, and granted him undisturbed sway over all the world for 1000 years, after which a divine child, born of a virgin, and the fon of the great TACSHACA, carpenter or artist, would deprive him both of his kingdom and of his life. Such are the words of the Vicrama-charitra: and in the Cumáricá-c'handa it is faid, that this would happen in the year of the Cali-yuga 3101, answering to the first of the Christian Era. Thus, VICRAMADITYA reigned for 1000 years nearly, unmolested, in the enjoyment of every rational pleasure, and never troubling himself about his latter end; till, recollecting the prophecies about this wonderful child, and that the time for their being fulfilled was near at hand, he grew very uneasy, and sent people all over the world, to find him out, that he might destroy him: and having discovered the place of his abode, he advanced at the head of an immense army, but was defeated, and lost his life, by the hand of this divine child, who was then five years of age.

THE history of these nine worthies, but more particularly when confidered as a single individual, is a most crude and undigested mass of heterogeneous legends, taken from the apocryphal Gospel of the infancy of Christ, the tales of the Rabbis and Talmudists concerning Solomon, with some particulars about Muhammed; and the whole is jumbled toge-

ther with some of the principal features of the history of the Persian Kings of the Soffanian Dynasty. For Vicrama is supposed to have waged war with the Romans, all the time that he lived; that is to say for 145 years; and to have taken one of their Emperors prisoner, whom he carried in triumph through the streets of Ujjayini. One of these Vicramas was really a Sassanian prince; and the samous Shabour or Sapor, of that Dynasty, took the Emperor Valerian prisoner.

THUS VICRAMA is made contemporary with SOLOMON; and, like him, he is faid to have found the great mantra, spell or talisman; through which he ruled over the elements, and fpirits of all denominations, who obeyed him like flaves; otherwife they were fare of being feverely punished. Like Solomon, he had a most wonderful throne, supported and adorned with lions, who were endued with reason, and speech; and this wonderful fabric is called, in Sanferit, Sinhafana, or the feat supported by lions. We read in the Vétala-pancha-vinfati, that it was through the affiftance of the great Vétala, or Devil, that two VICRAMADITYAS obtained the empire of the world, a long life, with unlimited fway. They performed the pújá in his honor, offered facrifices, and in short dedicated, or gave themselves up to him. This is highly reprobated by divines in India, yet they feem to allow, that when all other means fail, it may be done, provided it be not for wicked and abominable purposes. We read in the Thamurathnameh, (1) that the div ARGENK had likewife applied to the devil, to become the Solomon or Vicrama of his age. Zonac gave himfelf up also to the devil, in order to become the fovereign lord of the world, and with his affiftance he killed his predeceffor.

But let us return to the extract from the Vicrama-charitra, by

<sup>(</sup>I.) D'HERBELOT'S Bibl. Orient. v. SULEIMAN.

MAJOR MACRENZIE. Then came BALA-RISHI, VICRAMARCA, BA-LI and BHARTRIHARI, four brothers, from four mothers, of the four different classes, and sons of a holy Brahmen of Benares. The last, or BHARTRIHARI, was of the fourth class, and succeeded to the throne: He was learned, pious and valiant; and it is believed, that he is still alive, as a Muni, in the wilds above Hari-dwar. He was succeeded by VICRAMARCA, who made a facrifice in honor of the goddess CALL, and offered his own head. The goddess appeared to him, faying what is your boon? That I may rule the world for a long time. The goddess, pleased with his faith and devotion, told him, that at Ujjayini he should rule the terrestrial world for 1000 years, without hindrance or molestation, and at last that he should be flain, by a child, born of a virgin one year and a half old. His brother, being informed of this circumstance, said he would lengthen his life to 2000 years, for, as he was to rule at Ujjayini for 1000 years, he had only to remain in that city fix months in the year, and the other fix out of it. He then ascended to heaven, in his human body, where he was well received by INDRA, faw RAMBHA and URVASÍ dancing, and there was presented with the famous Sinhafana, or feat adorned with lions.

He chastised the Vetala-deva, or the king of the Devils, made him his slave, who then related to him twenty-five curious stories, to be found in the Vetala-pancha vinsati. Toward the latter end of his reign, he sent secret emissaries, through all the world, to inquire, whether a child were born of a virgin one year and a half old. The messengers returned to Ujjayini, with the news, that a male child was born of a virgin, the daughter of a potmaker, begot by the king of snakes (called Tacshaca, or the Carpenter, in the original,) while she was in her cradle. They

informed him also, that this child, named SALA-VAHANA, had attained the age of five years; and that his grand father had made numberless clay figures of soldiers, to amuse him.

VICRAMARCA marched at the head of an army, but the protecting fnake came to the affiftance of the child, and inspired the figures of clay with life, who flarted up as able warriors, attacked VICRAMARCA and his army, and defeated him. SALA-VAHANA cut off his head, and flung it into Ujjayini, that his death might be known to all the world. The queen was delivered, in that very month, of a male child; after which she burned herself with the head of her lord, who was re-united to the Supreme Being. Whilst the grandees of the state were assembled, to place the child upon the Imperial throne, a voice from heaven declared, that, as the child was born after the death of his father, he could not succeed to the empire of India, but only to the throne of Málava; and the same voice ordered the Sinhásana, or Imperial throne, to be buried in a fecret place. SALA-VAHANA, who was a learned and pious man, became a Muni, and withdrew to defert places, to give himfelf up to devout contemplation. MAJOR MACKENZIE informs us, that in a chronological lift, VICRAMARCA is declared to have reigned only 944 years; and in another, that it was only his dynasty or empire, which is faid to have lasted so long.

The learned of the western parts of India, whom I had an opportunity to consult, assured me that the first Millenium ended about the beginning of the Christian Era, and the second Millenium, when the Musulmans penetrated into the more inland parts of India; probably under Mahmood, about the year 1000 of our Era.

THE year 3044 of the Cali-yuga is looked upon, by many, as the year of Vicramarca's death; hence in the Deccan, they have reduced his supposed reign to 944: but by others it is looked upon as the first of his reign, which then must have ended in the 1000th year, answering to the first of the Christian Era. Hence Vicrama is said, in the Tädkerät-Assalatin, as cited by Bernoulli, to have lived 1100 years, before he re-appeared and reigned at Dilli.

THIS VICRAMARCA, called also VICRAMA-SENA and VICRAMA-SINH, is supposed to be the most ancient; yet his brother BHARTRIHARI (also named Sucadity A or Sucaraja,) besides a treatise consisting of 300 moral fentences, and fimply called BHARTRIHARI after him, wrote likewise a collection, entitled Sucasaptati or the 70 tales of the Parrot. Mention is there made of a more ancient king VICRAMA-SENA, to whom, and his daughter-in-law PRABHATI, the Parret relates these amusing stories. Every VICRAMA has either a parrot, a demon, or statue to entertain him. Another peculiarity of every one of them is, that upon the least disappointment, or fit of ill humour, he is ready to cut off his own head, and throw it at the feet of the goddess CALÍ, who interposes and grants his boon. Hence it is said, that the first time he cut off his own head, Cali granted him only one hundred years; when cutting it off again, he obtained to live for 100 years more; and every time, his familiar, the Vétála, replaced it upon his shoulders. This he did ten different times, when the Vétála, or the devil, informed him, that this could be done ten times only, and no more, as in the cafe of RAVANA, as every body knows.

WE read that there was a king of Pataliputra-pura, called VICRAMA-TUNGA, who was like a lion, finha: hence he is called VICRAMA-SINHA through the whole legend. He happened to be in the holy city of Pratish-

tana, when fifty of his relations, (the heads of whom were MAHABHATA, and his four confidential affociates, MAHA-VIRA-BAHU, or MAHA-BAHU, SU-BAHU, SU-BHATA and PRETAPADITYA, all mahá-balas, strong and valiantmen), surrounded him with a numerous army of Mahábhatádicas, or Muhammedans. He effected his escape with much difficulty, and fled to Ujjayini, where he concealed himself in the house of a rich merchant, who with his wealth enabled him to raife another army, when he attacked the Mahabhatadicas, and gained a complete victory. In the mean time, his wife SASILEC'HA, having been informed that her lord had been killed in battle, burned herfelf. The merchant's fon having been confined by the king of Ujjayini, VICRAMA-SINHA, at the head of his army, fet him at liberty, and then returned to his owncapital Patali-putra-pura or Patna. It is faid, in the third story of the Vétála-pancha-vinsati that MAHA-BHATA, or MAHA-BAHU was from Anangapura, in Ananga-desa, or country of ANANGA; the fame with CAMADEVA, which Pandits suppose to be toward the west. MUHAMMED is faid to be the grandlon of a king of India, hence he is called a relation of VICRAMADITYA.

In the seventh section of the Vrihat-cathá, we read, that there was a king of Pátalí-putra-pura, called Vicramaditya, who, hearing of the growing power of Nrisinha king of the consecrated city, or Pratishtána, called to his assistance the Gaja-pati, (lord of the Elephants, or king of Tibet,) and the Asva-pati (lord of horses or horsemen, or the king of Persia). The consederates took the field, but were deseated by Nrisinha-nripa or Salivahana, with an incredible slaughter. Vicramaditya sled, with the utmost precipitation, to Pátalí-putra; but meditating vengeance, he disguised himself like a carpati, or man who carries all over India the holy water of the Ganges, and went to Pratishtána. There he was kindly received by a rich mer-

chant, in whose house he remained a long time. King NRISINHA, or SA-LIVAHANA, happening accidentally to call at the merchant's house, they recognised each other; and NRISINHA, admiring his comely appearance, and also his courage and confidence, acknowledged himself overcome by him; when Vicramaditya advanced, and they embraced each other most cordially. NRISINHA carried him to his palace, where having entertained him in a suitable manner, they parted in peace, and Vicrama returned to Patali-putra-pura, having seemingly settled every thing concerning their respective Eras, at least it is so supposed.

In the tenth fection of the Vrihat-catha, we read that VICRAMA-CESARI was prime minister to MRIGANCADATTA king of Patali-putra. The king used to wander, by himself, through the woods, where he often lost his way, feemingly through fome infirmity; and his prime minister used to go in fearch of him. It happened once that he could not find him, and, passing near a holy place called Brahma-st'hala, he saw a Brahmen, sitting under a tree, near a well. VICRAMA-CESARI approached the holy man, who forbade him to come near, as he had just been bitten by a venomous fnake: but VICRAMA, who was well acquainted with the medical art, foon cured him. The Brahmen, willing to shew his gratitude, asked him, why he did not aspire to power and dominion. VICRAMA-CESARI seemed willing enough, and asked him, how this could be effected. The priest replied, perform the pújá in honor of the great Vétála or the devil, and you will obtain from him whatever you wish; and you will become like VI-SAMA-SAILA with the title of TRI-VICRAMA, who had the fidd'his, or power of working miracles.

AT Pratishtana, says the Brahmen, on the banks of the Godaveri, reigned TRI. VICRAMA-SENA, the son of VICRAMA-SENA. He was thus called, because he possessed acrama, pracrama, and vicra-

ma, three fyronymous words, implying energy in a great degree. A Brahmen used to come very often, and presented him every time with a flower, in which was concealed a jewel of great value. The king respectfully eceived the flower, and afterwards threw it away into a corner, where they all remained neglected and undifturbed. At last the king accidentally discovered a jewel, and searching into every flower, found in every one a gem alfo. When the priest came again, he asked the reason of this strange circumstance, and what he meant by it. The Brahmen informed him, that, if he would come alone to a certain place, which he pointed out, he would then reveal the whole mystery. The king did not fail to go, on the appointed day: when the Brahmen informed him, that before he could unfold this fecret, it was necessary, that he should go into an adjacent grove, where was a corpfe hanging upon a tree: cut the rope, fays he, and bring the dead body to me. The king, though very unwilling, was obliged to comply, and having cut the rope, he placed the dead body upon his shoulders; and, on the road, a spirit, that was in it, spoke, and related five and twenty stories, to amuse and deceive the king; when, at the end of each story, the corpse slew back to its tree, and every time TRI-VICRAMA went and brought him back, and being at last irritated, he took care he should no more escape. Then the spirit informed him, that the Brahmen wanted to destroy him, and usurp his throne. For this purpose, he was going to perform some magical rites, in which a dead corpse was absolutely necessary; and that this was the reason, why he had insisted on the king bringing him a dead body TRI-VICRAMA-SENA being fatisfied with the truth of this information, put the Brahmen to death; and MAHADEVA appeared to him, faying, thou wert before VICRAMADITYA, a portion of my own essence. I

the wicked; and ultimately thou wilt be VICRAMADITYA again; and, when thou diest in that last character, thou wilt be re-united to me. This alludes, according to the learned, to the two Millenniums of VICRAMADITYA. This legend is a little obscure, and the compile. seems to have jumbled together the legends of VICRAMADITYA and SALI-VAHANA; though of the latter, no mention, by name at least, be made.

As VI-SAMA-SILA was at first king of Pratishiana, he was of course; the same with Salivahana; and the first part of the legend has an obvious reference to him, in that character. VICRAMA-CESARI appears to be the SRI-CARNA-DEVA-RAJA-VICRAMA, with the title of ADITYA, who dethroned his sovereign, taking advantage of his infimmities; and this VICRAMA-CESARI, in the third story of the Vétála-panchavinsati is declared to be king of Pátali-putra-bhú-mandalam, or country and region of Pátali-putra, as every body knows; and his wise's name was CHANDRA-PRABHA-MAGADHÍ, being a native of Magadha.

It is faid, in some legends (1) that three male children were born the same day: one the son of a Bráhmen, the second a Cshettri, and the third a Vaisya: some add a sourth of the Súdra tribe. It was foretold, that one of them would become king, or at least remain so without being molested, if a king already; but not before the two others had been put to death. The Bráhmen, hearing of this, easily circumvented the Vaisya, who was a Taili or oil man, with whose body he wanted afterwards to perform a most abominable sacrifice, to Vétála, or the Devil, in order to destroy Vicramaditya. Maha-deva became incarnated in the person of Tri-Vicrama at Ujjayini, or rather Pratishtána, on the sollowing occasion. The Gods, that is to say the Bráhmens and

<sup>(1)</sup> In the Bhoja-praband ba.

Went in a body to Cailása, to Maha-deva, to whom they said, you and Vishnu have destroyed the Asuras or Daityas, but these are born again on earth as Michhas. They vex the Vipras or Brahmens, and will not allow the performance of religious rites and sacrifices, destroying all the religious instruments, and other requisites: they even carry away the daughters of holy Munis. In consequence of this remonstrance, Tripurari or Maha-deva, was incarnate, in the house of Sura-Mahendraditya-Jacatjaya, at Ujjayini, who was making Tapasya to obtain a son. As soon as his wife had conceived, the heavenly host came down to worship her. The high priest and prime minister, who were also childless, obtained each a son; and young Vicramaditya called also Vi-samasila in this place, soon surpassed his teachers in learning and wisdom.

The old king refigned the throne to him, and then withdrew to Benares; and Vicramaditya became king of heaven, hell, and earth: the genii and demons were obedient to him, and his fame reached the White island in the sea of milk, or White sea. His general Vicrama-sacti conquered Dacshina-pátha (or the Deckin,) Madhya-desa (or the inland parts of India) Casmár and Saurashtra (or Soret,) and the countries to the east of the Ganges. He forced Vira-sena-Sinhaleswara, or the king of Sinhala or Ceylon, to sue for peace, and to give him his daughter, and Cutaca (or Cuttaca) was obliged, at last, to submit. He extirpated several tribes of Mlechhas, and others surrendered at discretion. He married, at Ujjayini, three wives, Gunavati, Chandravati and Madana-sundari: wishing to marry a fourth, he saw, in the house of Visvacarma, a beautiful damsel, daughter of Calinga-sen is

king of Stambhasta (now Cambat, or Cambay) in Calinga-desa. He sent a trusty man, to demand her of her father, who refused his consent: but Vicramadity a sent one of his attending spirits, who soon obliged him to comply.

This is, it feems, the Vicramaditya who obtained a famous boon from Indra, in favour of his favourite country Málava, that it should never be visited by drought. In his time there had been no rain for twelve years, owing to Sani (or Saturn) passing into the house of Sucra(or Venus) in Vrisha (or Taurus) through the Sacata-bhéda (or fection of the wain) in Róhini (or the stars near Aldebaran.) In the time of Dasarat'ha, Saturn, the offspring of the Sun, attempting to go through thispath, was prevented by Dasarat'ha, and hurled down, into a country which he set on fire, and it was from that circumstance called Barbara.

In the Sinháfana-dwátrinsáti, the twenty-fourth statue is introduced, giving to king Bhója an account of Vicrama, and of Salivahana. There was, in Purandarpura, a rich merchant; who, before he died, gave to every one of his four sons an earthen pot, sealed, with injunctions not to open it, till after his decease. When opened, the first was found to contain nothing but earth; the second coals; the third bones, and the fourth bran. Vicrama was applied to for an explanation, but neither he nor any body else could explain this enigma. The four sons went afterwards to Pratishtána, and neither the king nor any body else there could give them an answer; but there was a wonderful child, who did. There were two Bráhmens, who had a sister, who lived with them in a state of widowhood, her husband having died, whilst she was yet very

roung. She conceived by a Naga-cumara (or Tacfhaca); and the brothers, ashamed at this seeming disorderly behaviour of their fister, left the country. The unfortunate young widow, thus deferted, found an afylum in the humble cottage of a potmaker, where she was delivered of a male child, whom fhe called SALIVAHANA. The child, hearing of this strange case, went to the king's presence, where the four sons of the merchant were, with a numerous and respectable assembly. He spoke without embarassment, and they were astonished, for his words were like amrit or ambrofia. The first pot, says he, containing earth, entitles the owner to the landed property of his father. The fecond contains coals, and of course all the timber and wood become the property of the second son. The third is entitled to the elephants, horses, cattle and animals of all descriptions belonging to the estate; and the fourth is entitled to the corn and grain of all kinds, the property of his father. VICRAMADITYA, on hearing of this, fent for the child. who refused to come: go, says he to the messenger, and tell him, that when I have completed my bufiness, or in other words, when I shall be perfected, or my time is arrived, he will come to me of himself. VICRA-MADITYA, irritated at this answer, wanted to kill him; and advanced, at the head of a numerous army, against the child, who, making figures of foldiers with clay, animated them. They fought on both fides, with courage; but the Naga-cumara, or fon of the great serpent, stupified VICRAMA's army; who, finding his foldiers afleep, implored the affistance of the serpent Vasuci, who gave him some amrit, with which he revived his troops; and SALIVAHANA, hearing of this, fent. two men for some of it, and VICRAMA complied with his request: and

here ends the legend, which was introduced only to give an instance of Vicramaditya's unbounded generofity.

THE next VICRAMADITYA, and whose history is best known all over India, was the son of GARDDABHA RUPA, or he with the countenance of an Ass; and an account of him is given in the Vicy ama-upá-c'hyána, or sirst Section of the Sinhásana-dwátrinsati.

The next Vicramaditya was the famous king Bhója, who recovered the Sinháfana, and going to the White island, dived into the infernal regions, where he saw the apartments of Crishna, or Vishnu; and close to them those of Bali, who received him kindly, and bestowed upon him the title of Vicramaditya; and his son, called Jayananda, was styled also Vicramaditya. According to others, Jayananda was only either the adopted son, or the son-in-law of Raja-Bhója, having married his daughter Bhánu-matí.

The principal feature of the history of these Vicramadityas, as I observed before, at whatever period they lived, is their quarrels with a certain king, called Salivahana, with the title of Nrisinha, Naga-cumara, Nagendra, &c. except one, who is introduced as contemporary with Muhammed, and waging war against him, and his followers the Mahábhatádicas. Even in the time of Jaya-chandra, the last emperor of India, we find, in Persian records, a Salbahan, king of Dilii: and in the district of Budhaon, in that province, there is a small town, the capital of a Pergannah of the same name, called Core-Sálbáhan or the Fort of Salbahan, and said to have been built by him.

THE chief authorities, after the Vicrama-charitra, and the other books I have mentioned before, are the last sections, or rather supplements to

the Aghi and Bhavishva-puranas, the list of the kings of Malwa in the Ayin-Acberi, the Vanfavali or Rajavali, written by RAJA RAGHU-NATKA of the Cach'hwa tribe, at the command of the Emperor Au-RENGLEBE, and lastly a lift of the Bala-Rayas, or Balhara Emperors, and of the fovereigns of Malwa. The last fection, or rather supplement or appendix to the Agni-purana is the best chronological list that has come to my knowledge. It is feldom found annexed to that Purána; no more than the appendix to the Bhavishya. I was however fortunate enough to find it, at the end of a copy of the Agni-purána; at least two hundred years old, and, though complete, almost worn out. There I found the beginning of the appendix on futurity, exactly in the fame hand writing with the body of that Purana, and the owner most kindly made me a prefent of the last leaf, which contains both the end of that Purana, and the beginning of the appendix. In a copy of that appendix, it is faid to be the 63d and last fection of the Agni-purana. The numbers do not correspond now, though it be acknowledged, that the division of the Puranas into sections has not been the same, at all times, and in every part of India.

With regard to the appendix, or section of the Bhavishya-purana, it is obvious, that it never made part of that Purana, at least in its present state: but, as it treats of suturity (Birvishy), it was probably on that account attributed to it; for it appears that it belonged originally to some astronomical treatise, and it is very much like the preliminary section to the Jyotirvidabharana. It is supposed by some, that it is a short extract from the second part of that Purana, which either no longer exists, or is not to be commonly found. In the sirst part, there is not a sword about suturity, or the times to come.

THESE lists are the more valuable, as they give as an account of the Emperors of the west in India, of whom little or no notice is taken in the Puranas. The chief object of the compilers seems to be to establish the chronology of the western parts of India, since the explation of Chanacya, down to the death of Pithaura, and Jaya-Chandra, in the year 1192. The three first lists are nearly the same, and probably they were originally so; and as the list of the Emperors of the west in India, in the Ayin-Acberi, is one of them, it is obvious, that above two hundred years ago, they were considered, by the Pandits who assisted Abul-Fazil, as authentic documents.

The fourth list is from a work entitled Vansavali, or the genealogies; but more commonly called Rájávali, or reigns and successions of kings. It was written in the year 1659, by RAJARAGHUNATHA, of of the Cach'hwa tribe, at the command of Aureng-zebe. This has been translated into all the dialects of India, and new modelled, at less twenty different ways, according to the whims and pre-conceived ideas of every individual, who chose to meddle with it.

It is however the basis, and ground work of modern history, among the Hindus; as in the Khulaset-ul Tuwaric, and the Tadkerat-usfalatin. The latter treatise is a most perfect specimen of the manner of writing history in India; for, excepting Raghunath's list, almost every thing else is the production of the sertile genius of the compiler, who lived above a hundred years ago! In all these lists, the compilers and revisers seem to have had no other object in view, but to adjust a certain number of remarkable epochs. This being once effected, the intermediate spaces are filled up with names of kings, not to be found any where else, and most probably fanciful. Otherwise they

leave out the names of those kings of whom nothing is recorded, and attribute the years of their reigns to some among them better known, and of greater fame. They often do not scruple to transpose some of those kings, and even whole dynasties; either in consequence of some preconceived opinion, or owing to their miltaking a famous king for another of the same name. It was not uncommon with ancient writers, to pass from a remote ancestor, to a remote descendant; or from a remote predecessor to a remote successor, by leaving out the intermediate generations or fuccessions, and fometimes ascribing the years of their reigns to a remote successor or predecessor. In this manner the lifts of the ancient kings of Perfia, both by oriental writers and others in the west, have been compiled: and some instances, of this nature, might be produced from scripture. I was acquainted lately, at Benares, with a chronicler of that fort; and, in the feveral conversations I had with him, he candidly acknowledged, that he filled up the intermediate spaces, between the reigns of famous kings, with names at a venture; that he fhortened or lengthened their reigns at pleasure; and that it was understood, that his predecessors had taken the same liberties. (His lucubrations were of little use to me; but he had collected various lifts of kings, of which he allowed me, with much difficulty, to take copies.) Through their emendations and corrections, you fee plainly a total want of hiftorical knowledge and criticism; and sometimes some disingenuity is but too obvious.

This is; however, the case with the sections on futurity in the Bhagas vat, Vayu, Vishnu and Brahmanda-puranas; which, with the above lists, constitute the whole stock of historical knowledge among the Hindus;

and the whole might be comprised in a few quarto pages of print. Thefe I have collected together, with notes, derived from the affiflance of foreign writers; and hereafter they may be corrected, from a few hiftorical passages in their books, grants and inscriptions, which last must be used soberly. With regard to these lists, their being brought down, even to our own days, can be no objection; for it is the case with many of our old chronicles. We have them in the Ayin-Acberi, in the flate they were in at that time. I have feme copies, in which their chronology is brought down to the reign of AURENG-ZEBE: and laftly fome, in which the arrival of the English is foretold, under the name of Tamra-varnaforeigners, the offspring of MAYA, the engineer of the giants, and the fon of TWASHTA. Tamra-varna literally fignifies copper-coloured, but is interpreted Aruna-varna, or of the colour of the morning dawn; and, in lexicons, the Greeks, or Yavanas, are faid to be Tamra varna. In RAGHUNAT'H's lift, it is remarkable, that no obvious notice is taken, either of the elder VICRAMADITYA, or of SALIVAHANA; they are however concealed under the names of ADITYA, ridiculously written ADHESCHT by TIEFFENTHADER, and under that of D'HANANIAYA. which last is meant for SALIVAHANA. ADITYA is obviously meant here for VICRAMA; in some copies he is called HARA-BHAGA, or a portion of HARA the destroyer; because it was necessary that he should destroy 550,000,000 men from among the impure tribes, before he could obtain the rank of a Saceswara: and whatever man kills a Eaceswara only, obtains that exalted rank, as did SALIVAHANA

DHANANJAYA, or DHANID'HARA, as he is called also, is supposed by ABUL FAZIL, to have been the grand father of SALIVAHANA (1:

<sup>(1)</sup> Ayin-Acberi vol. 2d p. 54.

but, as there are feveral kings, and legislators, called VICRAMA; in the Game manner, we find also several SALIVAHANAS. This grand son of DIMNANJAYA is made contemporary with another VICRAMADITYA, who is supposed to have begun his reign A. D. 191; but, according to others, either in the year 184 or 200. In RAGHUNAT'H's lifts, current in the western parts of India, which have appeared in print, instead of SALIVAHANA, we find SAMUDRA-PALA, perhaps a disciple of his, and thus called, because he came by sea. In this remarkable instance, these lists differ, most materially, from those in use in the Gangetic Provinces, and eastern parts of India. In the latter, in the room of VICRAMADITYA, we read SURAGA or SUDRACA, a famous Emperor of India, mentioned in the Puranas, and of whom it is faid, in the Cumaricá-c'handa, that he would ascend the Imperial throne, after 3290 years of the Cali-yuga were elapsed, that is to fay, in the year of our Lord 191, and that he would reign in the city of Charchita; thus called from the fearch (cherche in French) or inquiries, made there into various religious opinions, and new dogmas; and thus it is understood, by learned men from the west of India, and it appears that there were several cities thus called. This SUDRACA had also the title of VICRAMA, and of ADITYA: but in the eastern lists, no mention is made of SAMUDRA-PALA. TIEF-RENTHALER takes notice of him, and BERNOULLI has given us the whole legend, fuch as it is in the M. S. S. copies.

WHEN VICRAMADITA was ninety years of age, then came Samu-DRA-PALA, or he who was fostered, or wasted over, by Samudra, or the ocean, because it is understood, that he came from distant countries by sea. He appeared in the character of a holy man, working miracles, and, as it seems, preaching about regeneration. He was kindly received

by VICRAMADITYA, who being old and decrepit, wished very much to be regenerated. SAMUDRA-PALA complied with his wishes; and, as there was a flout young man just dead, he directed the old king to fend his own foul into that corpfe, and showed him how to do it. Vice MADITYA did fo, and the young man revived immediately, to the great aftonishment of the multitude. In the mean time, SAMUDRA-PALA conveyed his own foul into the body of the king; and, in that old and decrepit frame, he contrived to maintain himfelf, for the space of 55 years, or more correctly 54 years, two months, and twenty days; and thus governed the country, with unlimited fway, in the shape and character of VICRAMADITYA. These 55 years being added to the 90 years of VICRAMA's life or reign, the fum, 145, is exactly the difference between the eras of VICRAMA, and SALIVAHANA, in the Dek'hin; for, in the northern parts of India, they reckon only 135 years. This new SALI-VAHANA, or rather his disciple, or follower, if he ever existed, died in the year 335: for this fecond VICRAMA, or SUDRACA, as he is called in the Cumarica-c'handa, ascended the Imperial throne in the year of CHRIST 191: but in RAGHUNAT'H's lift, this event took place in the year 291. That there is an error of 100 years is obvious, on the authority of the above fection of the Scanda-purána, and also from the particulars in the fame lift. There it is declared, that the fuccession of the Hindu princes ended in the year of the Cali yuga 4116, 2nswering to that of CHRIST 1016; but the particulars give (216; and, by retrenching these 100 years, the aggregate sums, resulting from the subordinate periods, perfectly agree with the general one, as given at full length in the lift. These subordinate periods become also proportionate to one another, from MAHABAL1's accession to the throne, 355 B. C. down

the year 1016 of our Era. The reason why these 100 years, and few more in another place, were introduced, is that the correctors of this lift confounded the final overthrow of the Hindu Empire, in the "year 1192, by SAHEBUDDEEN, with the mortal wounds given to it by SEBECTECHIN, and his fon MAHMUD, in the beginning of the eleventh century. In all the copies, which I have feen, of RACHU NATH's lift, o obvious notice is taken of the famous Emperor Bhoja: yet the learned infift that he is concealed there, under the epithets of DEVA-DHARA-SINHA, as he is called in some lists, and SAILA-DHARA-SINHA in others: but in many copies these names are written errone. oully DAMO-DHARA-SENA, and JALA-DHARA-SENA. In the Bhojaprabandha the epithet Deva is always prefixed to his name, thus Deva-BHÓJA; and in the room of these various surnames, we find in some copies DIVAYANA-SINHA. As BHOJA was king of Dhara (now Dhar) he might certainly be denominated DHARA-SINHA. This famous city is called also Sàila-dhárá, and Bhója is called Sailaditya, or VICRAMADITYA, who relided at Saila-dhara, in the Satrujaya-mahatmya; and in the same manner, SALIVAHANA is denominated PATTANE SINHA OF SENA, from the town of Pratifihana (or Pattan) where he is faid to have refided. If fo, the new modellers of these lists have introduced many obscure, or rather fictitious names, in order to fill up the space, between that emperor and the downfall of the Empire in 1192, by SAHEBUDDEEN, which they have confounded with the cata-Arophe under MA JD-BEN-SEBECTECHIN. In various lifts, which I have feen, SEBECTEGHIN'S name is written SEBECTEKIN, SANECTE-KIN, NECTEKIN &c.

As Bhoja is not noticed by any foreign writer, it is impossible to ascertain the time in which he lived, from the vague and contradictory data to be found in Hindu romance, within 100 years at least of the real time. Such is however the state of the Hindu chronology, even in modern times: and from such wretched materials what can be expected? Western historians, and those of China, have occasionally recorded eclipses, which are of great service in chronology; but they are absolutely disregarded by Hindu writers; at least, I have never been able to procure a single observation upon record, and connected with any historical sact, or the reign of any well known king or emperor.

In these different lists, the principal Eras are, the accession of Maha-Bali to the Imperial throne, 355 years B. C. his death in 327, the massacre of the Imperial family in 315, and finally, the expiation of Chanacya, 312 years B. C. and of these remarkable events I took particular notice, in my essay on the Gangetic Provinces.

The next remarkable Era is that of Salivahana and the eldest Vicramaditya: this the compilers and revisers have wrapt up in such darkness, and I believe designedly, that it is almost impossible to recognise these two samous kings. In some, Salivahana is called Pattansinha; in others Dhananiaya, Dhanadhara &c. Saca, Sactisinha; and in the Vrihat-cathá, Sama-síla, and Vi-samisia, and lastly Hala and Sala, Hali and Sali, Nrísing Nara vahana Vicramaditya is sometimes called Adit imply; in other places Vicrama, Vicramamitra, Vicrama-tunga, Vicramasinha, Vicrama-sínha, Vicrama-sínha, Vicrama-cesari, Vicramarca &c. whilst he is sometimes lest out entirely; which is immaterial, as they say, when Sali-vahana, his antagonist, is mentioned.

THE third epoch is that of king SURACA, called also ADITYA, and

THE fourth Era is that of VICRAMADITYA the fon of GANDHARUPA, whose reign began in the year 441.

THE fifth is the appearance of MAHA-BHAT OF MUHAMMED; and the fixth is the accession of Bhoja, called also Vicramaditya, to the imperial throne.

THE seventh Era is the deseat and death of PITHAURA in 1192, and that of JAYA-CHANDRA, in the year 1194.

LET us now examine and compare together the lists in the appendix to the Agni, and to the Bhavishya-puranas, and also in the Ayin-Acberi. In the Bhavishya, the years are omitted, but it agrees otherwise with the other lists, as much as can reasonably be expected.

THERE are three kings in the appendix to the Agni purana, fee-mingly in a regular order of succession; but who are to be rejected from the list; as it appears, from the context, that they were only in a collateral line, and seem to have been rebellious vassals, who, taking advantage of the weakness of their liege, set up for themselves, in their own country. The first was a rebel of the name of ATACA, as seemed, by his name, who made himself independant, and restined in the town of ara. He lived 190 years; that is to say, his collateral dynasty of many years, and this dynasty was very properly omitted in the Ayin-Acberi. Then comes Suc'h-sena, or Sumuc'h-sena, with another king called C'ha'dga or C'harga; and these resided at Chitra cúta in Bundelc'hand, as asserted in that Section or Appendix. Sumuc'ha-sena is called Keneck-sein in the

Ayin-Acberi; and in that treatife, Chitra-cúla, their metropolis, is metamorphosed into a king, to whom a reign of one year only is allotted. The names of the three next princes, Chandrapala, Mahendra-pala and Kurrum-chund, in the Ayin-Acberi, should be written in this manner, Rama-chandra, who did not reign: his son was Chaitra-pala, who was elected Emperor of India after the death of Jaya-nanda. His son and successor was Maha-chandra-pala; but I conceive that the true name of the latter was Mahendra-pala.

Tuz fevenih Era is the defeat and death of Prrugues in 11ga and FROM CHANACYA'S expiation, to the fift year of VICRAMADITYA, the fon of GANDHA-RUPA, the three lifts do not materially differ from each other, with regard to the number of kings, and the order of fuccession. The greatest difficulty is, from the first year of VICRA-MADITYA, the fon of GANDHA-RUPA, or HARSHA-MEGHA, which last is a ridiculous epithet for an Ass, to the first of Bhoja. The greatest part of the names of the kings, in this lift, are probably fictitious, except some of the most illustrious. The first we recognise is MAHA. BALI, or NANDA, who ascended the throne of India 355 years before CHRIST. From his accession, there elapsed 299 years, according to RACHUNATH's lift, to the death of VICRAMADITYA, which happened 56 years B. C. Then appears DHANANJAYA, who put to death ADITYA: these are SALIVAHANA and VICRAMADITYA: the sime coincide, and the name of one of them. DHANANJAYA is also to name of ARJUNA in the Mahá-bhárat, of whom it is said, that he did not exult over the ignorant and ill-favoured: but spent his riches among the needy: in short he was the wonder of all good men. This is the character given of SALIVAHANA in the Cumárica-c'handa, and the Agni-purana.

Ifecond Dhananjaya, called also Dhanandhara, is reckoned as an Utpata or prodigy, and some account of him is given in the Ayin-Acheri (1) and also in traditionary legends. He sprang suddenly from the middle of a temple at Pratishtána in the Dekhin, in a human form, and with a divine countenance, holding a bright sword. He attacked Aditya, or Vicramaditya, whom he put to death; then, leaving the Dekhin, he made Ujjayini the seat of his empire. In the grant found at Monghir, allusion is made to Vicramaditya, under the name of Sacadwishi, the soe of Saca or Salivahana; and it is not improbable that the prime minister, in the inscription on a pillar at Buddaul, is compared to Salivahana, under the name of Dhanan-Jaya (2).

There were undoubtedly many Vicramadityas; but which of them instituted the Era, denominated after him, is by no means obvious. For there is hardly any instance, I believe, of any sovereign or legislator, that ever instituted an Era called after him, and beginning with some memorable event, during the course, either of his life or of his reign. Any one of them might have instituted the Era; but it does not follow, that he lived at the beginning of it. The author of the Vansáváli, and in general all those, who have attempted to new model his list, say that the Era of Vicramaditya was instituted by his brother Bhartriham. Or Sucaditya, who is called Sacwanta on that account. He reign fourteen years; and after his death, Vicrama-

<sup>(1)</sup> Vol. 2d. P. 54.

<sup>(2)</sup> Afiat. Refearch. vol. 1ft.

name. This circumstance is noticed by BERNOULLI, from the Tadkerut-1 affalatin; but the copy in MR. HARINGTON's poffession is the most explicit on this subject, and I find that it is by no means a new idea. According to some, these sourteen years are the difference, between the Era of VICRAMADITYA in its corrected, and the same in its original State. This SUCADITYA is called also VICRAMADITYA in the Dekhin, and is faid to have begun his reign in the year of the Cali-yuga-3020, and to have died in the year 3034, from which they reckon the Era of Vicrama: but in the northern parts of India, they fay that he began his reign in the year 3030, and died in the year 3044. Yet this BHARTRIHARI, in the collection of tales attributed to him, alludes to another VICRAMADITYA, who from the context certainly lived long before him. Such is the uncertainty about this famous Emperor, that we are obliged to distinguish, between the years since the time of VICRAMADITYA and those of his Era. Thus, in the Satrujayamahatmya, we read, that after 465 years of the Era are elapsed, then would appear the great and famous VICRAMADITYA; and then, 477 after him, SAILADITYA, or BHOJA, would reign. In the Ayin-Acheri, the various dates, from the Era of VICRAMADITYA, are to be reckoned from his accession to the throne, in the middle ages of the Christian Era.

The third epoch in my list, and most of the lists in the eastern parts of India, is that of Suraca, who was succeeded by his brother Crishna, according to the Puranas. He began his the year 191, and was also considered as a Vicramaditya, or rather a Samvatica or author of a civil period; and of him also I took particular notice, in my essay on the Gangetic Provinces.

The next period is that of Vicramaditya, the son of the man with the countenance of an Ass. He is called in the list Gandha-Pala, or softered by an Ass. This prince is omitted, in several copies from the west: and between Gandha-Pala and Vicramaditya, or Vicrama-Pala, as he is called in these copies, there intervenes a king, called Sadatpala. This Vicramaditya had two sons, one called Tila-ca-chandra, who reigned only two years, and was succeeded by his eldest brother, Vicrama-sena, or Vicramaditya; and this Tilaca-chandra appears in the character of Bhartrihars.

THE next period is that of MAHABHAT-SRIMAN-MAHARAJA, or MUHAMMED the bleffed, or fortunate, the great commander of the faithful. In various copies, he is called MAHABHATTARACA, and MAHA-BHATTARICA. In MR. HARINGTON'S lift, the epithet of PARASU, answering to SEIFULLAH in Arabic, or the sword of God, is prefixed to his name. In all the copies from the west of India, he is called MAHA-PREMA, for MAHA-PRAMARA, or PARIMARA, the great destroyer; and, to the names of his four confidential affociates, the epithet of PREMA, or PRAMARA, is also added. Instead of PREMA, we should read PRAMARA, or PARIMARA, the destroyer; for, in the Satrujaya-Mahatmya, a favourite tract of the Jainas, he and his friends are called the PANCHA-MARAS, or the five destroyers. It is faid there, that JINA, in his last incarnation, as GAUTAMA in the shape of a white elephant, and therefore enominated SRI-HASTI-SENA, having obtained eternal bliss, then, three years eight months and fifteen days after this event, there would appear SACRA-PANCHA-MARA, who would put an end to all Dharma, or religion (1). Thus, the death of GAUTAMA

<sup>(1)</sup> Sacra, or the mighty chief.

happened in November 617: and his death, in the Puránas, and according to the Japanese, is placed, either late in the sixth, or early in the seventh century. Pramára the great destroyer, or Pari-Mára, he who destroys all round, is one of the titles of Yama, and very applicable to Muhammed. The Hindus, in the western parts of India, are well acquainted with the samous Cháryári of the Musulmans, or the sour friends and associates of Muhammed. Some, with a little straining, derive this name from the Sanscrit; and thus, the sour destroyers, with their leader, become the Pancha-Máras, or the five destroyers. Mr. Harington's list, which was brought from Associated by the Jamas; as Gauta-Máras introduced there, waging war against a certain Máru.

The next subject of inquiry is the Cumdricá-c'handa, a section of the Scanda-purána. The copy in my possession was written in Gujjarát two hundred and thirty years ago; or in the year of Vicramadity 1630, A. D. 1574: and in the year of Vicrama 1796, or A. D. 1740. It was the property of a learned Pandit, who made several corrections in the margin, as usual in India. The owner of that section, 230 years ago, obviously considered it as authentic, and as making part of one of the canonical books; and the copies in general use, in this part of the country, do not materially differ from it. According to the context, this Purána must have been written, when the Roman Empire, probably in the East, was in the zenith of its glory: for the author mentions it as the largest in the world, and says that it consisted of no less than 18,030,000 villages, or rather parishes; and he speaks of it as existing, in that powerful and extensive state, in his own time. Six dates only are given in this section. The first is Sudraca or Suraca,

who was to appear when 3300 years, fave 10, of the Cali-yuga, were blapfed, in the city of Charchita.

THE first VICRAMADITYA is mentioned, in the Cumáricá-c'handa (1); in which it is declared, that after 3020 years of the Cali-yuga had elapsed, then would VICRAMARCA appear. He reigned fourteen years, and of course died in the year 3034, when the Era of Yup-HISHTIR ended, and his own began. In the lift of the kings, who were to appear in the Cali-yuga, to be found in the Bhagavata, Brahmánda, Váyu, and Vishnu puranas, there are two kings, the seventeenth and eighteenth in regular fuccession from CHANDRAGUPTA, who reigned feven years each. The first is called VICRAMA, and the other MITRA; and they are supposed to have been originally meant for VICRA-MAMITRA; who, according to some, reigned fourteen years: and in these lists, the father, or predecessor of VICRAMA, is called GHOSHA-RAJA, or the king of thickets, which is another name for GANDHARUPA, or GADHA-RAJA in the west. This looks like an interpolation; and the more so, as it will appear hereafter, that GHOSHA-RAJA died in the year 440 of our Era ..

This is the Vicramaditya, after whom the prefent Samvat is supposed to be denominated; and it is the general opinion, that the first year of it is the next to that in which he died. Yet the Pandits, who affisted Abull-fazil, declared that it was the first of his reign; it is also the opinion of many respectable Pandits, particularly in the western parts of India. This is more conformable to a passage in the Cumáricá-c'handa (2), in which it is declared, that after 3100 years

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<sup>(</sup>r) Paragraph. 42d.

<sup>(2)</sup> Paragraph, 42d.

of the Cali-yuga were clapfed, then would SACA, or SALIVAHANA, appear. By this first year of SALIVAHANA, we must not understand it, as meant of the first of his Era; but of the first of his reign, which is unconnected with his period. In that case, Vicramarca lived 56 years; his death happened then in the 57, or the first of the Christian Era, the very year in which SALIVA-HANA, the lord and master of Rome, made his appearance, and after whom the Era, in use through that empire, is denominated.

THE fecond VICRAMADITYA is the same with SRÍ-CARNA-DEVA, called also SUDRACA and SURACA; and is mentioned in the Vetalapancha-vinsati, under the name of VICRAMA-CESARI, prime minister of the Emperor of India, at Pátali-putra-puram. It is he, to whom a Brahmen gave strong hints, to seize upon the throne, and avail himself of the infirmities of his mafter. He is the VICRAMADITYA mentioned by FERISHTA, in his history of India; and whom he makes contemporary with SAPOR, king of Perfia. He is also mentioned in the Bhoja-charitra; for, when RAJA-MUNJA wanted to destroy secretly young Bhoja his nephew, the latter, being apprifed of it, effected his escape, and wrote to him feveral couplets, well known to the learned; wherein, reproaching him with his dark and base scheme, he says, " SRì-CARNA-RAJA-VI-CRAMA is no more, and he carried nothing along with him out of his immense treasures; but died like another man." From that circumstance, . the title SRÍ-CARNA-RAJA-VICRAMA was conferred upon Bhója by posterity. It seems that he attempted to establish an Era of his own, which however did not last long. The Pandits, who waited upon ABUL-FAZIL, informed him, that feveral princes had attempted to fet up Eras, denominated after their own names: and this is also afferted

by many learned men now; but these new Eras were soon doomed to oblivion.

on his govern, he affembled his chancel; and

THE third VICRAMADITYA was the son of GARDDABHARUPA, OF RASHABHA-SENA, or the man with the countenance of an Ass. That name is pronounced GADHA-RUPA, or GANDHA-RUPA, in the spoken dialects; and he is called also GADHENDRA, or the lord of Asses, and GHOSHA-RAJA, or the king of thickets and bushes.

In the lift of the Emperors of India, in the annexed table, he is called GAND'HA-PALA; and, at Ujjayini, his name is GANDHA-RUFFSENA, according to DR. HUNTER of our Society (1). A. ROGER Writes it VENE-ROUTESI, or GUENEROUTESI: but fays, that it was the name of the fister of VICRAMADITYA, who, they insist in the Deccan, was himself the fon of a Brahmen of Benares, called CHANDRA-GUPTA; and there is a fulfome account of the birth of this VICRAMA, in the first section of the Sinháfana-dwátrinsati, called Vicrama-Upác'hyána. " In Gurjjara-mandalam are the Sabharamati, and Mahi rivers: between them is a forest, in which refided TAMRA-LIPTA-RISHI, whose daughter married king TAMRA-SENA. They had fix male children, and one daughter, called MADANA-REC'HA. The king had two young lads, called DEVA-SARMA and HARI-SARMA, whose duty chiefly was, to wash, every day, the clothes of their master, in the waters of the nearest river. One day, as DEVA-SARNA went, by himfelf, for that purpose, he heard a voice saying, tell king TAMRA-SENA to give me his daughter; should he refuse me, he will repent it. The lad, on his return, mentioned the whole to his mafter; who would not believe it, and next day fent HARI-SARMA to the

<sup>(1)</sup> Afiat, Refearch. Vol. 6th. P. 35.

river, who heard the same voice also, with the threats in case of a refulal. The king was altonished; and, going himself, heard the voice alto. On his return, he affembled his council; and, after confulting together, it was agreed, that the king should go again, and ask him who he was, The supposed spirit, being questioned, answered, I am a Gand'harva, or heavenly Choirister; who, having incurred INDRA's displeasure, was doomed to assume the shape of an Ass. I was born in that shape, in the house of a Cumbha cara, or potter, in your capital city; and I am daily roving about, in quest of food. The king said, that he was very willing to give him his daughter; but that he conceived, that fuch an union was altogher impossible, whilst he remained in that shape. The GAN-DHARVA faid, trouble not yourfelf about that; comply with my request, and it will be well with you. If, fays the king, you are so powerful, turn the walls of my city, and those of the houses, into brass; and let it be done before fun-rise tomorrow. The GANDHARVA agreed to it; and the whole was completed by the appointed time; and the king, of course, gave him his daughter." Several learned Pandits inform me, that this GAND'HARVA'S name was JAYANTA, the fon of BRAHMA. When curfed by INDRA, he humbled himself; and INDRA, relenting, allowed him to resume his human shape in the night time; telling him, that the curse should not be done away, till somebody had burned his ass-like frame.

It is faid, in the Vicrama-Upác'hyàna, that the mother of the damfel spied them once in the night; and, to her great joy, found that the GAN-DHARVA dallied with her daughter in a human shape. Rejoiced at this discovery, she looked for his ass-like form, and burned it. Early in the morning, the GANDHARVA looked for this body of his, and found that it had been destroyed. He returned immediately to his wife, in-

forming her of what had happened, and that his curse being at an end, he was obliged to return to heaven, and leave her. He informed her also, that she was with child by him, and that the name of the child was to be Vicramaditya: that her maid was with child also, and that the name of the child should be Bhartri-hari. He then left his wife, who resolved to die; and, ripping up her own belly, she took out the child, and intrusted it to the care of a Malini, or the wife of a gardener, or a flower woman. Go, said she, to some distant place, and there remain concealed; because my father will attempt to destroy the child. The Malini went to Ujjayini, with the maid; and from the signal preservation of the child, in that city, it was also called Avanti, from the Sanscrit ava, to preserve.

In the Agni-purána, the father of the damfel is called Sadasvasena, in the Bhavishya-purána Vasud'ha: Ferishta says that his name was Basdeo; whom he represents as Emperor of India, and residing at Canouge; but the author of the Vicrama-Upác'hyána, says that he was a powerful prince, in the westof India, and possessed of the countries, which we find afterwards constituting the patrimonial territories of the Balahara, which included Gurjjaráshíra (or Gujjarát,) with some adjácent districts. In the Ayin-Acberi he is called Sudhrowshenen, and at Ujjayini, Sundersena, according to Dr. Hunter, who says that this incarnation took place in the time of that prince. (1) This is obviously the history of Tesdejírd, som of Bahram-Gór, or Bahram the Ass, king of Persa: the grand seatures are the same, and the times coincide persectly. The amours of Bahram-Gór, with an Indian princes, are

<sup>( 1 )</sup> Afiat. Refearches Vol. 6th. P. 35.

famous all over Persia, as well as in India. According to D'HERBELOT, there is still a romance in Persian, called the amours of BAHRAM and GUL-ENDAM, the Indian princess.

THIS VICRAMADITYA ascended the throne of Malava, in the year 441, reckoning from the first of Salivahana; and 753 years after the expiation of Chanacya, according to the Agni-purana, answering equally to the year of Christ 441. In the Bhavishya-purana, in which the years are omitted, Vicramaditya is placed in the same order of regular succession; conformably also to the list of the Emperors of India, in the annexed table. Du Fresnoy, in his Chronological tables, (1) says, that the first year of his reign answered to the 441 of the Christian Era; and the authors of the Ancient Universal History place this event in the 442d: and surely no greater degree of precision could be expected (2).

THIS VICRAMA was the fon of the man with the countenance of an Ass; but his grand father was Atl-Brahma, in the Ayin-Acheri, and whose father was Brahma. Now Yezdejird, called Isdigertes by the Greeks, was the fon of Bahram with the nick name of Gor or the Ass. His grand father was another Yezdejird, called also Varames or Baram, with the title of Athim, and answering to Atl Birmah; and whose father was called Bahram, the same with Brahma, Birmah, or Bahram, as his name is spelt by Tieffenthaler, and in many M S S lists. (2) The Greeks pronounced it Varames, and ever Baram, as it is written by Theophylact Simocatta. (3) Jayanta, the son of Brahma, incurred the displeasure of Indra, king of the

<sup>( 1 )</sup> Du Freinoy Vol. 2d. p. 408.

<sup>(2)</sup> Anc. Univ. History Vol. 9th. p. 278.

<sup>(3)</sup> See Photii Bibliotheca. p. 87.

elevated grounds of Meru, or Turkestan; and was doomed, by him, to assume the shape of an Ass, in the lower regions. BAHRAM-Gur, or the Ass, likewise incurred the displeasure of the Khacan, or mortal king of Meru. He ascended the throne of Persia; and, after having overcome his enemies, he went to India, in difguife, to the court of a powerful prince of that country, who took particular notice of him, on account of his valour, and personal merit. The Indian prince loaded him with careffes and honours; and gave him his daughter, with an immense fortune; when he was recognized by some nobleman, who had carried the usual tribute to Persia. Being thus discovered, he returned to his own country, after an absence of two years. The Hindus affert, that he refused to take his wife along with him; and that, in consequence, she killed herself. They shew, to this day, the place . where he lived, about one day's march to the north of Baroach, with the ruins of his palace. In old records, this place is called Gad-'hendra-puri, or the town of the lord of Asses. The present name is Goshera, or Ghojara for Ghosha-raya or Ghosha-raja: for, says my Pandit, who is a native of that country, the inhabitants, being ashamed of its true name, have fostened it into Ghoshera, which has no meaning. BAHRAM, the Ass, had 12000 dancing women fent to him, from India; and it is supposed, that those of that profession, in the same country, to this day, are descended from them. This BAHRAM had been brought up arrong Christians, in Arabia; and king NOOMAN, who had been intrusted with his education, died a Christian. But BAHRAM abhorred the Christian name, and cruelly perfecuted all those of that profession; and this was the cause of a bloody war with the Roman Emperors, in which the armies of BAHRAM were repeatedly defeated; and once forced to plunge into the Euphrates; when above 100,000

men were drowned. His fon inherited all his rancour; but, being beloved by his troops, the Emperors of Constantinople were obliged to fubmit, and to pay a yearly contribution.

THIS BAHRAM, OF VICRAMADITYA, the Hindus claim as their own countryman; for, in the appendix to the Agni-purána, he is declared to be Carnanfya, or of the family of Sri-Carna, which is possible on the maternal side.

This is the Vicramaditya, whose younger brother was called Bhartrihari; famous for his piety and learning; and who succeeded his father, though the youngest: but being disgusted with the world on account of the insidelity of his favourite wise, he abdicated the throne of Málava, and retired to Benares; where he ended his days in devout contemplation: though many are of opinion that he is still alive. When he left the throne, his brother was gone to distant countries; and the whole kingdom being thrown into consustion, was soon overrun with demons, the chief of whom had taken possession of the throne; and it was with the utmost difficulty, that Vicrama drove him away, by gentle means, and even conciliated his favour, and thereby obtained a boon from him, to sit upon the throne for 100 years.

IT is the general opinion, that VICRAMADITYA put his brother SUCADITYA, or BHARTRIHARI, to a most slow, and cruel death, by severing his head, with a knife, both small and bad. His putting him to death is mentioned by HOLWELL, and MR. WILKINS (1.)

BHARTRIHARI, according to the Hindus in general, withdrew to Chunar near Benares, where he remained some time; when his brother

<sup>(1)</sup> Afiat. Refearches Vol. 1ft. p. 129.

gave him a purganah, or small district, called to this day Bhartari, and Bhittri, after him; and which is to the eastward of the mouth of the river Gomti. There are the remains of a pretty large fort, with the ruins of his palace. Near it is a stone pillar, with an inscription, containing only a few couplets from the Mahá-Bhárata: it is however remarkable, on account of the curious connexions of the letters.

Beine obliged to go often to Benares, he raifed an artificial hill, at some distance from the northern banks of the little river Burná, to to the north of the city, exactly in the shape of the hill of Chunár, on which he resided. It is a work of great magnitude; and near it is a small village, called, from that circumstance, Páhár-pur, or Hill-burgh,

In the lists of the kings of Gwalior, both M. S. S. and printed, it is declared, that Surya-sena, or Surya-pala, called also Soma-pala, built the fort of Gwalior, in the year 332 of Vicramaditya, by whom we must understand the son of Bahram-Gór; and thus, the building of this famous citadel took place in the year 773; and probably, on account of the astonishing progress of the Musulman invaders, on the banks of the Indus. The kings of that country resided at a place called Cánti or Cántipura (now Cotwall, nine cos to the north of Gwalior, according to Lieut. Wilson's information). The origin of this little kingdom is mentioned, in the prophetick chapters of the Váyu, Brahmándo and Vishnu-puránas: but the latter is more explicit, on this shipest, than the others. After the death of Puloma, in 648, there appeared in Anu-Gangam, or the Gangetic Provinces, a king, called Visvasphatica, or Visva-sphurji; who drove away the Bráhmens and Cshettris, and raised to that dignity persons of the lowest classes. After

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him came the Nagas or Nacas, who divided among themselves Anu-Gangam, and the countries to the westward: some resided at Padma. vati (or Patna); others at Prayaga, (or Allahabad.) There was a branch of them, who settled at Canti (now Cotwall near Gwalior.) and another at Mathura: and there were nine samilies of them. There is still a tribe of the Nagas, or Nacas, on the banks of the Jumna, about Calpi. They seem to form a singular tribe, but I am otherwise unacquainted with them.

Thus Surya-Pala, or Soma-Pala, built this fortress, in the year 773, and of Vicrama the son of Bahram-Gur 332; which computation is further confirmed by another epoch. Aja-Pala or Gebal, is said, by Ferishta, to have been assisted, in his wars against Mahmud, by Tandepala king of Gwalior. There is one Dhand'hupala, in the Persian list of its kings, and the sixteenth from its soundation. He was the friend and ally of Gepal, and their combined forces were deseated, by Mahmood, about the year 1017.

The dynasty of Suryapala consisted of eighty five princes, according to the prediction of Gopachala the hermit, (called in the Persian hist Gualipa;) and ended in the person of Teja-carna, 103 years before Gwalior was taken, by Shamseddin, or Firoze the 2d; (who ascended the imperial throne in 1289;) having lasted above 410 years, which is certainly too little for 85 reigns: but their products are not uncommon with Hindu chronologers. Lieut. Wilson informs me, that a Brahmen, in the service of Candu-jee, has sometime since written a history of Gwalior, in Sanscrit, in which he places Suryapala, or Soma-pala, in the Dwapar age: and the author declares, that his account is conformable to ancient inscriptions, still existing on the

(t) (Vol. 2d. pr pr

rocks of Gwalior; and that the chief circumstances in his history are entirely taken from them. If fo, neither the inscriptions, nor the work itself deferve much credit. BAHRAM, with the epithet of GUR, in Sanferit GARDABHA, or the Ass, is the founder of the Garddabhina dynasty, mentioned in the prophetick chapters of the Puranas. The Hindus fav. that when GARDDABHA withdrew from India, he left his wife and - her many wind, and that have were with child by him; but Persian writers affert, that took his wife with him, to Perfia, with her immense fortune. In RAGINAT'H's lift, we find, that the fon of GADHA-PALA, Or GARDDABHA, was VICRAMADITYA; who had two fons, TA-LACA-CHANDRA, who reigned only two years, and another, called VICRAMADITYA also, who succeeded him. According to Persian history, GARDDABHA had a fon, called YESDEJIRD, who fucceeded him. This prince had two fons, FIROZE, the eldeft, and HORMUZ, the youngest, firnamed the wife; whom, on account of his wifdom, he appointed for his fuccessor; and, to FIROZE, he gave the Government of Sigistan and Mecran. The account of these two brothers has much affinity with what they relate, in India, of VICRAMADITYA and BHARTRIHARI, Some fay that VICRAMADITYA put him to death; others, that he banished him to distant countries. Be this as it may, they show the ruins of his place of abode, in Gujjarat, at Ujjayini, and near Benares. The dynasty of the Gardabhinas is probably that of the descendants, and successors, of HAHRAM Com in Perfia. The princes in the N. W. parts of India were vallals of the Perlian kings, at a very early period; and the fatherin-law of BAHRAM-GUR used to fend a yearly tribute to them. According to the Hindus, he was not Emperor of India, but only a powerful king in the western parts of that country, and his capital city

was Cambát (or Cambay.) It is not improbable that FIROZE spared the life of his brother, and banished him to distant countries; and spread a report of his death, to prevent any further commotion in his favour. Shirovyeh, the son of Khosru Purviz, caused his seventeen brothers to be secretly conveyed to India; and it was sirmly believed, in the west, that he had put them all to death: yet there is hardly any doubt, that the kings of Oudypoor, and the Marhatta, are descended from them and their followers, as is will appear in the appendix. In many copies of Raghu-nath's list, intead of Gadha-pala, we read Cshema-pala, or some other name. Next to him, a prince is introduced, called Sadat-pala; probably for Sadasva-pala, the name of the father in law of Gadha-pala, or Bahram-Gur.

As the famous Emperor Bhója is not noticed by foreign writers; the period, in which he lived, is involved in much observity. In the Ayin-Acheri, (1) Bhója is said to have ascended the throne, in the year 541 of Vicramaditya's Era; which is impossible; for it would place Bhója's accession to the throne in the year 982; and therefore, there would be no room, either for his reign, which was a long one, nor for those of his two successors, the last of whom died in 1009. In the Satrujaya-mahatmya, we read 477 instead of 541, and this will place Bhója's accession, in the year 918 of Christ. But the author of the above treatise uses another mode of calculation, which will give a difference of four years. In the year 466 of the Era, says he, was Vicramaditya, who reigned 108 years; and 477 years after, appeared Saladitya, in Asárápura. The Era is that of Salivahana, and as the Jainas reckon from the death of Vicramaditya, the whole will

<sup>(1)</sup> Vol. 2d. p. 55.

stand thus 465 + 79-108 + 477=914, for the year of CHRIST, in which BHOJA afcended the throne. MAJOR MACKENZIE, in his extracts communicated to the Society, fays, that in the Dekhin it is recorded of Bhoja, that he reigned fifty years five months and three days: and that the famous CALI-DASA lived at his court. Accordingly, BHO-Ja died in the year 965, or 969, if we place his accession in the year 918. The author of the Satruj iya-mahatmya places the accession of VI-CRAMADITYA in the year of CHRIST 437, instead of 441; and when we read, in the Ayin-Acberi, that BHOJA ascended the throne in the year of VICRAMADITYA 541, this might possibly be a mistake for that of his death; and fuch mistakes are unfortunately but too frequent with Hindu writers; and his death would, in this case, fall in the year 977; or in 982, if we reckon from the year 441. This account is the most probable, as it leaves room for the reign of his adopted fon JAYA-NANDA, who died without iffue, when CHAITRA-PALA, or JYTE-PALA of the Towira tribe, was raifed to the throne. After fighting feveral unfuccelsful battles with SULTAN MAHMOOD, he put an end to his own life, in the year 1002, and was fucceeded by his fon MAHENDRA PALA. This CHAITRA-PALA or CHANDRA-PALA, and in the spoken dialects CHAITA-PALA, JYTE-PALA and GEPAL, by Musulman writers, is called CHAITRA-CHANDRA in the Bhavishya's which cannot be explained otherwise, than by supposing, that the author meant, that he was called indifferently either CHAITRA-PALA OF CHANDRA-PALA. He was a most powerful prince, and his authority was acknowledged all over India; and he is mentioned in the Ayin-Acberi (2) under the name

<sup>(2)</sup> Vol. 2. p. 55.

of Chandra-Pala; but he is placed erroneously before Raja-Bhoja. This is the Vicramaditya, who is made to wage war against Maha-Bhat and the Mahabhatadicas, Muhammed and the Muhammedans. No Hindu prince could have waged war against Muhammed; but the whole is an allusion to the subsequent wars with his followers: and in the same manner we must probably conter the wars of the Cramas with Salivahana. The Hindus have confounded Sultan Mahmood with Muhammed, whom he as their own countryman, as well as Salivahana, while neither of them ever was in India.

THE propenfity of the Hindus, to appropriate every thing to themfelves, is well known. We have moticed before their claims to BAHRAM-GUR, and his descendants; and in the same manner, they insist, that ACBAR was a Hindu in a former generation. The proximity of the time. in which this famous Emperor lived, has forced them, however, to account for this in the following manner. There was a holy Brahmen, who wished very much to become Emperor of India; and the only practicable way for him was to die first, and be born again. For this purpose he made a desperate Tapasya, wishing to remember then every thing he knew in his present generation. This could not be fully granted; but he was indulged with writing, upon a brafs plate, a few things, which he wished more particularly to remember; then he was directed to bury the plate, and promised, that he would remember the place in the next generation. MUCUNDA, for fuch was his name, went to Allahabad, buried the plate, and then burned himfelf. Nine months after, he was born, in the character of ACBAR, who, as foon as he ascended the throne, went to Allahabad, and easily found the spot, where the brass plate was

exactly like the Persians of old, who insisted that ALEXANDER was the son of one of their kings: so that, after all, they were forced to submit to their countrymen only. But let us return to MAHABHAT, or MUHAM-MED.

gusted with the word carry a pilgrim, and went to Mocsheswara-sthana (or Mecca). In is way thither, and in Arabia, he stopped at the house of a Bráhmen, who received him kindly, and ordered his daughter to wait on him, as usual. Whilst asleep, the cloth, with which his loins were covered, was accidentally defiled. When he awoke, he took it off, and concealed it in a corner of the house, in some hole, and out of the sight of the damsel, as he thought. Being from home, to perform his ablutions, in consequence of this nocturnal defilement, the damsel came at the usual hour; and her courses suddenly making their appearance, she was much distressed, and looking every where for some cloth, she spied the bundle—in short, she conceived. He departed for Mecca; and some months after, the parents of the damsel, and herself, were thrown into the greatest consusion, as may be imagined.

THE holy man was confidered as the author of their diffrace, though the damfel exculpated him: yet she could not account for her present situation. She was, like HAGAR, turned out of the house, into the wilderness, with her son: where they were miraculously preserved, both being innocent. Some years after, the holy man returned, unconscious of his having been the cause of so much uncasiness, to the family of the hospitable Brahmen.

to make the long or at bear time tone of Vice amanter visit appearance,

AFTER much abuse, the matter was explained; but the fon of the damfel could not be admitted to share with his relatives, or even to remain in their communion. He was, however, honourably difmiffed, with his mother, after they had given him a fuitable education, and rich presents; and they advised him to shift for himself, and to set up a new religion, as he could not be confidered as a member of the old one, on account of his strange birth, or rather conception. When advanced in years, he wished to see his paternal relations, and India; and to persuade them to conform to his new doctrine; but he died in his way thither, at Medina, near Candahár. This Medina is Ghazni, called emphatically the fecond Medini, from the great number of holy men entombed there: and it is obvious, that the Hindus have confounded MUHAMMED with SULTAN-MAHMOOD, whose fumptuous Mausoleum is close to that city. Thus we fee, that the account they give of Mu-HAMMED is a mere rhapfody, retaining some of the principal features of the history of ISHMAEL, HAGAR, MUHAMMED himself, and SUL-TAN MAHMOOD.

The Samvat, or Era, of Mahabhat, was early introduced into India, and the Hindus were obliged to use it, as they do now in all their civil transactions; and thus Muhammed became at least a Sambatica or Santica. According to the rules laid down by the learned in India, Mohammed is certainly a Saca and Saceswara, and is entitled to the epithet of Vicrama. He is a Saca, or mighty chief; and, like other Sacas, he killed his millions: he is Saceswara, or the ruler of a sacred period, still in use in India. For these reasons, the Pandits, who assisted Abul-Fazil, did not scruple to bestow the title of Vicramaditya upon him; and even to consider him as the real worthy of that name; and in order to make the Era, or at least the time of Vicramadityas appearance,

coincide with the Era of MUHAMMED, they have most shamefully diftorted the chronology of the appendix to the Agni-purana.

		AVIN ACBERI,	
AGNIPURANA,		Salivahana, I	or o
Sáliváhana }	84	Narayáhana,	100
Naraváhana J	PANI	Putra-rájas,	100
Vánsá váli or Putra-rájas, that is	00	mility willing the	200
to fay the royal offs, ring,	TORD O	Áditya	86 7 3
and the last part of the last	84	Birmahraj, bout a.	- 30
Áditya,	55	At-Birmah,	90
Brahmá -raja,	87	(Sudhrowsheneh, for	Degianie
Ati-Brahma,	3t	Sadásva-sena,	80
Sadásva,	80	Heymert,	100
Harsha Mégha, J	100	Gundrup, -	35
ift. of Vicramáditya,	37	Ift. of Vicramáditya,	621 7 3

In the M. S. S. copy of the Ayin Acberi used by Tieffenthaler, the days and months were omitted. In feveral we find feven months, and three days once only; and the repetition in other M. S. S. is owing probably to the carelessness of transcribers. Here one year only is allotted to Salivahana, and 100 to NARA-VAHANA, who is the fame with SALIVAHANA, to whom one only is allowed, in order, probably, to keep up his rank and place in the lift. It is also to be observed, that where we put o at the beginning of a chronological lift, the Hindus put 1, as we used to do formerly; and that year should be rejected in calculations; but this precaution is often neglected, even in Europe.

THE first year of SALIVAHANA, but not of his Era, was the 3101 of the Cali-yuga, answering to the first of the Christian Era, according (i) Agan Asbury Vol. a. p. 56.

to the Cumarica-c'handa; and confequently, this VICRAMADITYA's accession, to the throne, happened 621 years after the birth of CHRIST, according to the M. S. S. perused by TIEFFENTHALER; and 621 years 7 months and 3 days, according to others: and the Hejra began, when 621 years 6 months and 15 days, of the Christian Era, were elapsed: the difference is furely trifling. That the Padits, who affifted Annual actions pointed to MUHAMMED, under the name of VICRAMADITYA, is confirmed also from two dates in the Ayin Acberi, in witch the years, said to belong to VICRAMADITYA'S Era, are really to be reckoned from the beginning of the Hejrá. Probably it was meant as a compliment to the benevolent ACBAR, whose tolerant spirit could not fail to endear him to the Hindus. Even in the time of AURENG-ZEBE, the most intolerant of all princes, when RAGHU-NATHA wrote the Vanfavali, at his command, he introduced MUHAMMED by name, with the title of SRÍMAN-MAHARAJA. In this attempt, the Pandits, who affilted ABUL-FAZIL, most shamefully disfigured the chronology of the supplement to the Agni-purana. Of SALIVAHANA and NARA-VAHANA, they made two distinct persons; as well as of BAHRAM, with the title of GUR, in Perfian, and HAIMAR, or the wild Ass, in Arabic. Thus they introduced HAIMAR OF HAYMERT, and GUR OF GANDA-RUP: to the former they allotted 100, and to the latter 35 years; and they had the affurance to tell ABUL-FAZIL, that it was declared, in their facred books, that HAIMAR having been killed in battle, his foul paffed into the body of GANDA-RUP (1). They were also forced to lengthen the reigns of the intermediate princes: thus one abyss calls to another, and a fingle lie requires often fifty to support it.

<sup>(1)</sup> Ayin Acberi, Vol. 2. p. 54.

THE accession of Vicramaditya, the son of Bahram-Gur, to the throne, is placed, in the supplement to the Agni-purána, A. D. 437; and the same date is given, in the Satrujaya-mahátmya, as we have seen before (1). This event is placed, however, in the year 441, or 442, by chronologers in the west; and in the appendix to the Agni-purána, the accession of Anitya is placed in the year of Christ 185; but, in the Cumáricá-c'handa, it is declared to have taken place in the year 191: the difference is six years, which added to 437, or rather to 436, will place the same event in the year 442.

The name of the Emperors, called Muhammed, or Mahmood, is generally written, and pronounced, by Hindus, Mahabhat, which implies a great warrior: hence he is called also Maha-Bahu, Vira-Bahu, and Maha-Vira-Bahu. It is written also Maha-Bhattara-Ca, Mahabhattarica, and Moha-Bhattar. In the Vansavali, he is styled Sriman-Maha-Raja, the prosperous (or on whom blessing and happiness) the great commander. In the list of kings, the titles are generally placed after the proper name: thus Bhoja is dignified with the title of Sri-Carna-Raja-Vicrama, in the appendix to the Agni-purana. In the Vansavali, as new modelled by the Jainas, the epithet of Parasu is prefixed to his name, and not improperly; because, like another Parasu, he and his successors destroyed the kings of the Earth. Parasu signifies a sword, or scimiter; and here perhaps, alludes to the epithets of Seifullah, (the sword of God,) and of Zulfecar, so samong his followers.

<sup>(1)</sup> See before p. 157-

It is faid, in the Vrthat-cat'ha, that he was from Ananga-desa, or the country of ANANGA, another name for CAMADEVA, and supposed. by Pandits, to be to the west-ward of India. In the Vansaváh, instead of Ananga, it is written Benga, or Bengal. The HAMIR, or HOMAR, introduced as his fuccessor, in this list, is probably meant for OMAR, whoas early as the year 636, began to form regular plans, for the invalion of India; and actually fent a large detachment, by fea, to invade the Delta of the Indus: or rather, this HAMIR is the famous HAMIR. general of MOAVYEH (1), who waged a long and bloody war, with the Hindus, in the countries bordering upon the Delta. MOAVYEH began his reign in the year 661, and died in 679; and the wars of HAMIR, with the Hindus, took place about the latter end of his reign. In the Vanfávali, he is called HAMIR-SINHA, and HAMIR-SENA: but, in many copies, the first fyllable of his name is dropped, and we read Mir-sena, DIRSENA, and even DISENA; and, in some copies, he is said to have been a native of Ananga.

THE title SRÍMAN-MAHA-RAJA was probably bestowed upon MAHA-BHAT, in compliment to Aureng-Zebe, by whose order the Vansa-váli was written. The Hindus, in general, never speak ill of Muham-med; and they think that he was a good man; but they by no means entertain the same idea of his disciples.

DURING the time of MUHAMMED, neither he, nor his followers, ever troubled themselves about *India*: but soon after his death, and in the year 636, OMAR began to devise means, for the invasion of that country; and the first step he took, was to build Basrah, or Bussarah.

<sup>(1)</sup> Ayin Acberi, Subah Tatah.

Fre then fent Magaireh-Abul Aas, according to the Ayin-Acheri (1), who, fetting off from Baharein by fea, invaded the western parts of the Delta of the Indus: but meeting with unexpected resistance, he was defeated, and lost his life; and as Omar died in 641, this expedition must have taken place between these two years, and probably in 639 or 640. Othman, his successor, attempted an invasion by land; but having sent people to survey the roads, he was deterred by their report. All, aster him, sent a general, who effected some trisling conquests, on the borders of Sind. Moaviyeh sent twice his general Amir, or Hamir; but, after long and bloody conslicts, he was forced to desist. Under the Caliph Walid, the conquest of Sind was at last effected, by Muhamimed-Casim, A. H. 99. or of Christ 717. (2)

The rapid conquests of OMAR, and his successors, through Iran and Turan, and their constant and unrelenting attempts upon India, though not always successful, particularly at the beginning, could not but alarm very much the Princes of that country; who thus soon became acquainted with the Mahábhatádicas, Muhammed their chief, and the intolerant spirit of their new religion.

LET us now pass to the second part, from the first year of VicramaDITYA, to the death of Prithwi-raja, and of Jaya-chandra. In
this part, the appendix to the Agni, and also to the Bhavishya-puranas,
agree pretty well with the Ayin-Acberi, in regard to the number of
kings, and the order of succession. There is, however, in the Ayin-Acberi, a material difference; for three kings, who are placed after Bhó-

<sup>(1)</sup> Vol. 2d Account of Sircar Tatah p. 147.

<sup>(</sup>e) ibid.

JA in the two first lists, are transposed in the Ayin-Acberi, and put before Bhója, and in an inverted order of succession. These are Rama-Chandra, (called there erroneously Kurrumcund) Chandra-Pala, and Mehendra-Pala. The reason of this transposition is, that the Pandits, who assisted Abul-Fazil, having placed the accession of Bhója no years before the death of Java-Chandra, in 1194, that is to say, in the year of Christ 1084, there was no longer room for these three kings; and they concluded, that they must have reigned before Bhója, particularly as they sound there a king, called also Mahendra-Pala, the grand father of Bhója. Another mistake, in the Ayin-Acberi, is the introduction, not only of a collateral dynasty, but the metamorphosing the place of their residence into a king.

THE fuccession of kings, from VICRAMA the son of GARDABHA, to JAYA-CHANDRA, stands thus in the appendix to the Agni-purana.

VICRAMADITYA,

100 years

CHANDRA-SENA,

50

SURYA-SENA.

85

CHANDRA-SENA is omitted in the Ayin-Acberi,

SACTI-SINHA,

85

In his time the Era of SALIVAHANA prevailed over that of VICRA-

C'HADGA-SENA.

85

he refided at Ujjayini,

AT that time ATACA, called VATACA in the Puranas, reigned at Dhara-nagara, for the space of 190 years, or rather his dynasty. Suc'hasen a or Sumuc'h-sena, and after him C'hadea-sena reigned at Chit-

tracúta (in Bundelcund). The first reigned 88, and the second 86 years; and these appear to be collateral dynasties.

THEN came MAHENDRA-PALA, called VIJAYA-NANDA in the Ayin-Acberi, and these two epithets imply a great conqueror, It is said, that he reigned 100 years, at Yóginí pura, or Díllí; but it is a mistake, for the MAHENDRA-PALA, who reigned in that city, lived after Bhoja. After his death, Munja was appointed regent, during the minority of his fon BHOJA. He refided at a place called Sonitpura, and reigned 86 years. After him, Bhoja reigned, in the Dekhin, 91 years. He was succeeded by JAYA-NANDA, sometimes, but erroneously, called JAYA-CHANDRA, and he reigned 89 years. Thus, the compiler of this lift feemingly places the death of JAYA-NANDA 1095 years after the accession of VICRAMAJ DITYA, the fon of GARDDABHA, to the throne; or in the year of CHRIST 1480; thus confounding together this VICRAMADITYA, with the one after whom the Era is supposed to be denominated. In this manner, he has carried back the first year of SALIVAHANA, 441 years before CHRIST; and the expirtion of CHANACYA and CHANDRAGUPTA, 753 before the fame Era. His idea, however, was, that JAYA-NANDA died in the year 1095 of VICRAMADITYA'S Era, answering to the year of CHRIST 1039: and as Buoja reigned only 50 years, instead of 91, a further correction will place the death of JAYA-NANDA in the year of CHRIST 998, which is presty near the truth. These inconsistencies and contradictions, fo frequent among Hindu chronologers, are difgustful in the last degree, and must greatly retard the progress of historical recsearch.

He was succeeded by Chaitra-Pala, the son Rama-Chandra, a powerful zemindar, in the country of Gauda, in Malava, and of the Tomara

tribe. In the Ayin-Acberi (1) we read, that, when JAYA the fon of BHOJA died, there was not found any one of the Pomara or Powar tribe, worthy to wear the crown; on which account, CHYTEPAL, and eminent zemindar, was chosen king; and he founded the Tomara dynasty.

In these three lists, we find two dynasties introduced, the Tomara and the Chauhan: but these were collateral, at least for some time; as obvious from the context of the appendix to the Agni-purána; in which it is declared, that JIDAHANA, called PRITHWI-RAJA in the Ayin-Acberi, (2) was defeated, and killed in battle, in the country of Sambhala, by the Chauhans, who thus became kings of Yogini-pura, or Dillic Thishappened, fays ABUL-FAZIL, in the year of VICRAMADITYA 848 ( it should be 488); and as the first year of VICRAMADITYA is made, in that fection, to correspond with the first of the Hejra, the death of JIDA-HANA happened in the year of CHRIST DITO. This is further confirmed, by another passage from the same author (3), in which he says, that the dynasty of BALA: DEO, or BILDEO, the Chauhan, lasted 83 years, and feven months, that is to fay, from the death of PRITHWI-RAJA who was flain by BALDEO, to the death of PITHAURA, in the year 1192, or of the Hejra 588: and from the beginning of the Hejra, to the year 1110 of CHRIST, there had elapfed exactly 488 Hindu or Lunifolar years. (4) Accordingly, thefe two dynasties will stand thus:

<sup>(</sup>I) Vol. 2d. p. 56.

<sup>( 2 )</sup> Vol. 2d. p. 118.

<sup>(3)</sup> Vol. 2d. p. 115.

<sup>(4)</sup> Vol. 2d. p. 118.

The Tomana Family.

Rama-Chandra, Zemindar

of Gauda, did not reign.

Chaitra-pala, his fon, Emperor

of India, bad two fons;

Mahéndra-pála, . Emperor Raya-féna, called also

Ananga-pàla, and Écapala,

builds Dilli, A. D. 1050.

Rana Badi .

Jidahana, killed in battle

by Bala-deva A. D. 1110.

bad two fons.

Vigahana, withdraws to Gauda his native country.

Sanca-pàla, Cirtti-pàla, Anangapàla, CHAUHANA Family.

Bahufáli

Visàlàcha

Sóma-deva

Bala-déva

Naga-déva

Cirtti-pála

PRITHWI-RAJA,

died A. D. 1192.

In the account of Subah Dilli, by ABUL-FAZIL (1), the list of the Chauhan princes, who reigned after the year 1109, is erroneous; but in the account of Subah Malwa, (2) it agrees with the appendix to the Agni-purana.

MUSULMAN writers inform us, that, after the death of Gebal, or CHAIT-PALA, the Balhara kings, in Gujjarát, became Lords paramount, or Emperors of India: and, in the Agni-purána, we find that CHAITRA-PALA had two fons, MAHA-CHANDRA-PALA, or MAHENDRA-PALA, who proved at last a weak and soolish prince, and his brother RAYA-SENA carried away his wife, and built Dilli. He was called Ananga-Pala,

<sup>(1)</sup> Vol. 2d p. 115.

<sup>(2)</sup> Vol. 2d p. 62.

or befriended by love, and RATIPALA, or fostered by RATI, the Goddess of love, and the consort of CAMA-DEVA; perhaps in allusion to the above transaction: hence the sounder of Dilli is called, by some, ANANGA-PALA, and by others RAYA-SENA. He is noticed by Tief-Fenthaler, who calls him RASENA, and says that he built Dilli (1) ABUL-FAZIL, in his account of Subah Dilli, places this event in the year of Vicramaditya 429: and in a former section, he makes the first year of that Era to correspond with the first of the Hejra. (2) It happened then in the year of Christ 1050; and this is confirmed, by another passage from the same author, (3) in which he places the building of Dilli, or the beginning of the Tomára dynasty, in that city, 142 years before the death of Pithaura, in 1192; and this gives the same result.

AFTER the defeat and death of PRITHWI-PALA, or JIDAHANA, in the year 1110, his fon VIGAHANA returned to Gauda, his native country, according to the Agni-purana; but we find still three of his descendants, reigning at Dilli, Sanca-Pala, Cirti-Pala and Ananga-Pala. In the Agnipurana it is said, that Ray-sena conquered the Antar-vedi, or country between the Jumna and the Ganges; and also the country about Dilli, and settled there. The Chauhanas possessed, at the same time, Sambhala-desa, or the country of Sambhala, to the north of Canouge.

ANANGA-PALA, the last king of Dilli of the Tomára dynasty, being without male issue, adopted PRĬTHWI-RAJA, or PITHAURA, the last

<sup>(1)</sup> Beschreibung von Hindustan, p. 111.

<sup>(2.)</sup> Soobah Malwa vol. 2d. p. 61. See above p. 161, 162.

<sup>(3.)</sup> Vol. 2. p. 115, 118.

of the Chathan dynasty. This account is to be found, in the history of the wars of Pirthi-raja, or Pithaura, in the spoken dialects, part of which is in my possession. There it is declared, that Ananga. Pala had no male issue; and that he gave his only daughter, in marriage, to the Chauhan king of Sambhala-desa; who had by her a son, called Pithaura. Ananga-pala adopted him for his own son, and appointed him his successor to the throne of Dilli; recommending him, at the same time, to Jaya-chandra, Emperor of India, and residing at Canoge. This happened, says the author of the above treatise, in the 120th year of king Ananga-pala; but more probably of his dynasty, which lasted 142 years; and accordingly, this adoption took place in the year 1170 of the Christian Era.

It is acknowledged, that the Imperial throne belonged, of right, to the Chohan family, and that they were deprived of it by JAYA-CHANDRA, of the Rattore tribe; but we are not told the ground of their claims and pretentions. Be this as it may, fuch was the cause of the last great war in India; for, when JAYA-CHANDRA attempted to perform a grand facrifice, at which the presence of all the kings of India was required, he was told, that he was not qualified to prefide at fuch a fact fice, as the empire belonged to the Chohán family; and of course, that it was the province of PITHAURA, who had absented himfelf, because he thought that the usurper would not allow him to preside at the sacrifice. A love affair contributed also to exasperate both parties; for, when JAYA-CHANDRA led an army into Sinhala-dwipa, or Ceylon, the king of that country fubmitted, and made him a prefent of a most beautiful and accomplished damsel: but JAYA-CHANDRA, being advanced in years, adopted her for his own daughter; and she was soon to have been married to a powerful king: but she, having heard of PITHAURA'S valour and atchievements, fell in love with thin, and refused her consent. Jaya-chandra, enraged at her behaviour, causer in to be consined; and this was the cause of a most bloody war, in which the heroes of India fell, by mutual wounds. PITHAURA proved successful, set the young damsel at liberty, and carried her in triumph to Dilli, and recovered also the Imperial throne. But he did not enjoy it long; for Sahebuddin made his appearance with an army, and Jaya-chandra entered into a league with the invader, which soon brought ruin and destruction on both parties. PITHAURA fell, in the plains of Sthánu-sar, or Thánu-sar; and it is said, near a village, called Naráyana pura. The league, between Jaya-chandra and Sahebuddin, did not last long; and, in an engagement, in the year 1194, between Chandwár and Etàwáh, Jaya-chandra was completely routed, and obliged to sly; and, in attempting to cross the Ganges, in a small boat, he was drowned. (i).

AFTER the famous expiation of CHANACYA, which I mentioned before, in my essay on the Gangetic-provinces, the author of the appendix to the Agni purana proceeds in the following manner: "Ambu-RAJA; (or the king of the waters surrounding India), MAHA-PATI (the great sovereign lord), BHUMI-PALA, (the software of the world), reigned a hundred years. After him came RAMA-GHANDRA, who reigned twelve years; and was succeeded by BHARATA, who reigned, in Ujjayini, 200 years."

AMBU-RAJA is obviously CHANDRA-GURTA, whose reign here is made to begin, and not improperly, immediately after the expiation

to have been married to a powerful king; but the, have

<sup>(1)</sup> Ayin Acberi, Vol. 2d. p. 102.

of CHANACYA; when every thing was fettled, and CHANDRA-GUP-

Thus, from that famous expiation, to the end of BHARATA's dynasty, there are 312 years, ending the year preceding the first of the Christian Era: but according to the Cumáricá-c'handa, this expiation took place 310 years B. C. and the difference is trifling.

"THEN," fays the compiler of the appendix to the Agni-purána, "at Pratishtána in the Deccan, through the mercy of Siva, will appear Salivahana, Mahá-bali, great and mighty; D'harmátmá, the soul and spirit of righteousness and justice; Satyaváca, his word truth itself; fpirit of righteousness and justice; Satyaváca, his word truth itself; Anasúyaca, free from spite and envy; Rajyam-uttamam-critaván, whose empire will extend all over the world; Nara-váhana the conveyer of souls (to places of eternal bliss): and he will reign 84 years."

Nara-váhana fignifies literally the conveyer of men, which is here the fame thing; for the idiom of the Sanserit language will hardly admit of our saying conveyer of souls. Thus Christ is represented by the Manicheans, when they call him animarum vector in majore navi, the conveyer of souls in the larger boat.

"THEN WILL come NARA-VAHANA (in the Bhavishya purana NRI-SINHA) who will reign 100 years." NARA-VAHANA and NRI-SINHA are two well known epithets of Salivahana, and they have been probably introduced here in order to enable the compiler to bring in probably introduced here in order to enable the compiler to bring in passage immediately following. "Then will appear NARA-VAHANA, passage immediately following. "Then will appear NARA-VAHANA, and VANSAVALI." In the Ayin-Acheri (1) in the room of VANSA-

<sup>(1)</sup> Subah Malwa.

and the former is retained by Tieffenthaler. Vansa-Raja homes the royal offspring, Putra-Raja, the royal children, and Vansavall, offspring or descendants, and also an account of them. The two former are generally pronounced Raja-putras, and Raja-vansas; and they are introduced here, because there are some families of Raja-puts, and Raja-vansis, who really pretend to be Salavansas, or the offspring of Hala or Sala-vahana. To these, very properly, no years, are allotted, in my copy of the Agni-purána; but, in that used by Abul Fazil, 100 years are given to them; and none to Salivahana, or if you will, one year only.

SALIVAHANA,	complex to the present at lower sping or sping or the \$8.
NARAVAHANA and the Vanfa-halis  or Vanfávális	100 lingil manage all.
But in the Ayin Acberi we have,	184
NARA-VAHANA Vanfa-rájas or Putra-rájas.	100
the state of the state of the state of the state of	200

HENCE it appears, that originally SALIVAHANA and NARA-VAHANA, in this place, were confidered but as one individual.

"THEN will come ADITYA, who will reign 55 years." His reign began the 185th year of SALIVAHANA, and of the Christian Era, accor-

ding to the copy; but in the year 201, according to the Ayin-Acberi.

VICRAMA-ADITYA, who was contemporary with SAPOR king of Perfia, according to Ferishta, and reckoned among the feveral kings called VICRAMADITYA, in the Sinháfana dwátrinshati. He is mentioned under the name of Subraca, or Suraca in the Vrihat-cathá, and under that of VICRAMACESARI in the Vetalapanchavinsati as we have seen before; (1) and according to the Cumáricá-c'handa, began his reign in the year 191 of the Christian Era.

"After him came Brahma-raja, who reigned 87 years in Vidharbhanagari. His successor was Ati-Brahma, who reigned at Ujjayiní: he went with an army to countries toward the north, but was defeated and killed, after a reign of 31 years."

"HE was succeeded by SADASWA," called VASUDHA in the Bhavishya, and BASDEO by FERISHTA: "he reigned 84 years."

In his time appeared HARSHA-MEGHA OF RASHABHA, called GANDHA-RUPA in the Ayin-Acheri, and BAHRAM-GOR in the history of Persia.

HIS fon was VICRAMADITYA, (in the Bhavishya two persons are mentioned, BHARTHARI and SRÍ-VICRAMADITYA;) who began his reign accordingly in the war 441, reckoning from the first of Sali-Vahana, and answer of course to the same year (441) of the Christian Era: and the sold BARAM-GÓR ascended the throne in that very year. SRÍ-VICRAMADITYA is supposed to have reigned 100 years, and of course he died in the year 541. It is here said that he went and subdued the Paitánas; that is to say, the inhabitants of Patana in the Decean, but not the Patans, as Bernoulli says. His successor was Chandra-

<sup>(1</sup> Pag. 107. 146.

SENA, who reigned 50 years: then came SURYA-SENA; who reigned 85, and died of course 135 years after Vicramaditya. Surya-Sena seems to be a corruption for Suryansa, or Sri-suryansa, another name for Sri-Salivahana, as I shall shew in the next essay; and, like Salivahana's death, his is placed exactly in 135th year of Vicramaditya's Era, and the same number of years after his death, and in the year 676 of the Christian Era. But it does by no means follow, that there existed, at that time, a prince called either Salivahana or Suryansa; but what we can reasonably conclude, is, that his Era was introduced at that time, and finally prevailed. "Then," says our author, (under the reign of his successor Sacti-sinha and in the room of Vicramarca, the Saca-bandhi,) "Salavahana will be chief of the Saca, or facred period;" or, in other words, his Era will prevail over that of Vicramarca.

VICRAMARCAT param chaiva SACA cartta bhavishyati.

SALAVAHANA namnaiva prasidd'ham punar asya tu.

THEN, after VICRAMARCA, SALAVAHANA will be the maker (ruler)

The famous Bhoja was the fon of Raja-sindula, and born unto him in his old age. When he died, his fon being a minor, and only eight years old, his uncle Munja whose name is often written Punja, was therefore intrusted with the regency.

Munja wrote a geographical description, either of the world, or of India; which still exists, under the name of Munja-prati-desa-vyavastha or state of various countries. This voluminous work was afterwards

corrected and improved, by RAJA-BHÓJA; and this new edition is called Bhója-pentidesa-vyavástha, and still exists in Gujjarát.

WHEN BHOIA ascended the throne, he found the samous Sinhafana, or lion-feat, which had been buried fince the days of VICRAMA-DITYA, and thereby became intitled to that epithet, which was confirmed to him by BALI, when he visited the infernal regions. He is also called SRI-CARNA-RAJA-VICRAMA, with the title of ADITYA, which last is used often separately, and was also a title bestowed upon SRÍ-CARNA-DEVA, whom he alluded to in the stanzas he fent to MUN-JA, (1) and which afterward, from that circumstance, was bestowed on him. When he died, the Goddess SARASVATI, presiding over the sciences, wept bitterly, faying " where shall I find now a place to dwell in. " Вно-JA ascended the throne, as we have seen before, in the year of CHRIST 913; and he refided at Dhárá-nagar, commonly called Dhár, in the province of Málava. He had an only daughter, called BANUMATI, whom he gave in marriage to JAYA-NANDA, who conquered all India, and is reckoned as the last of the worthies dignified with the title of VICRAMADITYA, though fome reckon JAYA-CHANDRA as the last; and indeed JAYA-NANDA and JAYA-CHANDRA are often mistaken, the one for the other,

In the appendix to the Agni-purana, the author concludes with declaring, that some hundred years ago, "the Gods and men in India, groaning under the tyranny of, foreign tribes, went in a body, with BRAH-MA at their head, to Sweta-dwipa, or the White Island in the west, to implore VISHNU's protection, in their own name, and also in the behalf

<sup>(1)</sup> pag. 146.

of men. VISHNU comforted them, as usual, and promised that he would appear, in the character of CALCI-AVATARA, when he would. exterminate all their enemies." If fo, the Hindus must wait no less s than 429, 917 years for relief. Every VICRAMADITYA had a certain number of learned men at his court; the chief of whom is, in general, called CALIDASA. According to the Supposed appendix to the Bhavishyapurana, VICRAMADITYA the fon of GARDABHA had fixteen of them. RAJA-BHOJA had nine, among whom DHANWANTARI and BARARU-CHI were the most famous. These two learned men are called DHUN-PAL and BERUJE in the Ayin-Acberi. Another VICRAMADITYA had only five; and these learned men were dignified with the title of Ratna, or jewels, with which the courts of those Emperors were adorned. It is the general opinion, in the west, that the real CALIDASA lived at the court of king BHOJA. This is confirmed, by the extracts communicated to the fociety, by MAJOR MACKENZIE, and also in the 8th. Vol. of the Afiatick Refearches; (1) and SALIVAHANA is even supposed to have had a poet of that name at his Court,

The next lift, coming under examination, is from Gujjarát, and was given to me by a Pandit, a native of that country. It is chirely confined to the ancient rulers of that, and of the adjacent countrys; and comes down no lower than the year 1309; and I was happy to find, that it was the same lift, which was used by the Pandits who affined that it was the same lift, which was used by the Pandits who affined that it is, that they had no better documents at that time. They borrowed from it only the last dynasty of the king of Gujjarát, which began A. D. 746.

<sup>(1)</sup> pag. 243.

THIS lift, called also Vansávali, contains the names of the rulers of these countries, under the title, either of Bala-rajas, or Rayas, or Mahá-Rájás, sprung from various tribes, or belonging to different dynasties. Many of them were only petty kings, and vassals to the more fortunate kings of another tribe, fitting then upon the Imperial throne. For these various tribes were always struggling for supreme power; and the Imperial dignity was conflantly shifting, from the one to the other. Unfortunately, the compiler has not pointed out those who were Rajendras; and there were, of course, many of these inserior sovereigns, in a collateral fuccession with the Emperors. The whole is compiled with the usual negligence and carelessness of the Hindus, and the author carries the beginning of this lift as far back as the beginning of the Cali-yuga, and yet he mentions only thirty-fix kings, or rather nine and twenty, in the lift, from that period to the year of Christ 746. It is customary with Hindu Genealogists, to reafcend to the beginning of the Cali-yuga, whenever they fancy they can do it with propriety; otherwife, these families would be looked upon as a new race, and their princes as men of yesterday. But these nine and twenty reigns cannot carry the origin of the Bala-Ráyás beyond the beginning of the Christian Era. This idea, however, is by no means novel; for Musulman writers, some make DABSHELIM, the first Bala-Rayar imporary with HUSHENK, the fecond king of the Pishdadian dynally in Perfia; but, according to Masount, he must have lived a little after the beginning of the Christian Era.

THE title of Bala-Rája, Bala-Ráyá, or Bala-Rau in the spoken dialects, signifies the great king, and is unknown in India, as belonging to the ancient sovereigns of Gujarát. According to our compiler, there were two sorts of these sovereigns, some were Rájá-Culas, or of royal

extraction, fuch as VICRAMADITYA and BHOJA; others were descended from powerful Zemindars of different tribes, the names of which were the Cha-uhana or Chauhana, Chauda and Gohela, to which we may add, from the context of the lift, the Solanci, and the Bagnela tribes. Ac-CORDING to Musulman writers, the first Bala-Raya was DAB-SELIM, DAB-SLIM, DI-SALEM and DI-SLAM. These are strange appellations, and unknown in India, at least in that shape; and are hardly reducible to any standard, either Sanscrit or Hindi. My inquiries, concerning this ancient and famous king, have proved unfuccefsful, unlefs his real name were SAILA-DEVA, according to learned men from Gujarát. This SAILA-DEVA, SAILA-DEO, DEB-SAILA or DE-SAILA, was, according to tradition, a most holy man, of royal extraction; and I find him, or one of the same family, mentioned in the Ayin-Acberi, under the name of Syel-Deo (1). The word Deva is pronounced, DeB in the eaftern parts of India, DEO, DE and DI in the western parts of India; and, in the present list, such proper names as end in DEVA, or DEO, in the Ayin Acberi, have constantly DE in the room of it. This word is feldom prefixed to proper names, yet there are several instances of it, as in DEB-PAL-DEB, a famous Emperor, mentioned in the Imperial grant found at Monghir, and in DEVA-NAUSHA, pronounced Di-Nissi in the Deccan. In our lift, the first Bala-Raya is called Dr-SACA, or DEVA-SACA, which I suppose to be meant for DI-SALA, DI-SALLA OF SAIL DEO.

His descendants are known to Musulman writers under the appellation of Deb-Sálimát, according to D'HERBELOT (2); and their fire is re-

<sup>(1)</sup> Ayin Acberi, Vol. 2d. subah Gujjerát, p. 89.

<sup>(2)</sup> See D'Herbelot, Dabschelim and Dabschalimat.

presented as a most virtuous, and powerful prince, and king of the country of Sóma-nátha, or Gujarát. Pilpat was his prime Minister, and at his command, wrote the samous testament of Hushenk, still existing in Persian. In the present list, Di-Saca or Deva-Saca is declared to have been a Yadu by birth, and of this tribe was Crishna. Masoudt, who wrote about the year 947, and had been in India, throws some light, in his golden meadows, upon the time in which Deva-Salla lived.

"The dynasty of Phour, who was overcome by Alexander, lasted 140 years: then came that of Dabschellm, which lasted 120 years. That of Yalith was next, and lasted 80 years; some say 130." (Yalith is a strange name, and the nearest proper name to it, in Hindi, is Jaliya, or Yaliya, the name of a descendant, or successor, of Deva-Saila.) "The next dynasty was that of Couros," (a corruption, from either Carna, Curan or Curu:) "it lasted 120 years."

"THEN the Indians divided, and formed several kingdoms: there was a king in the country of Sind; one at Canoge; another in Cashmir; and a fourth in the city of Mankir, called also the Great Houza; and the prince, who reigned there, had the title of Balhara." (1)

Now, it is acknowledged, that DEB-SAILIM was the first Balhara Emperor, and the founder of that dynasty; and if so, that Emperor, and his dynasty, have been transposed by MASOUDI, and erroneously placed before Couros, whoever he was. The other dynasties of Puru,

<sup>(1)</sup> See accounts and extracts of the M. S. S. in the Library of the king of France, vol.

We cannot fix, with precision, the beginning of the dynasty of Puru; but at all events, the division of India into four Empires, happened in the first century after Christ; and according to Arrian, in his Periplus, the city of Minnagara or Mankir, was the metropolis of that part of the country. This city is placed, by Prolemy, upon the banks of the Narmadá, and is now called Manhawer. I have not yet been able to procure much information about this samous place, as very sew people from that part of India ever come to Benares: but it is mentioned in the Ayin-Acberi, as a town of some note, in the district of Mandow, in the province of Malwah.

- THE dynasty of DEVA-SAILIM, in Manhawer, according to MAsouds, lasted 120 years; that is to ray, his descendants were, during that period, lords paramount of India, or at least of that part of it; and in the time of PTOLEMY, the metropolis of that country was no longer Manhawer, but the feat of Empire had been transferred to Ujjayini or Ozene; and he wrote in the beginning of the third Century. In his time, the Bala-Rayas were no longer lords paramount of India; but were either vaffal, or independent kings, refiding in some fastenesses among the mountains, at a place called by, him Hippocura; and now Pay-gurra or Pawá-gurra. This was, fays he, the place of abode of the Baler-curos; or rather the gur, curos, fort or abode, of the Balher kings. According to the appendix to the Agni-purana, the fupposed dynasty of SALIVAHANA lasted 184; but according to the Ayin-Acberi, 200 years. After it, came ADITYA, of the Pomara tribe, called also Vicramaditya, Sudraca and Suraca: he was Visuapati, that is lord paramount of the world, or rather of that part of India. According

to the Cumarica c'handa, he ascended the Imperial throne in the year of the Cali-yuga 3191, and of CHRIST 191. The appendix to the Agni-purana places his accession in the year 185, and the Ayin-Acberi in the year 201, of our Era, and he reigned at Ujjayini. By PTOLEMY, the king of that famous city, is called TIASTAN; a strange name, and not reconcileable to the idiom, either of the Sanfcrit, or Hindi languages. I strongly suspect however, that it is a corruption of Adit ofthan, which may have been mifunderstood, by travellers, who knew very little of the country languages. I suppose, that either these travellers, or PTOLEMY, who conversed with many Hindus at Alexandria, asked what were the names of the metropolis of that country, and of its king. The answer was Ujjayini-Raja-Aditya sthán; 'Ujjayini is the residence of king ADITYA:' which was erroneously rendered 'Ojené is the metropolis of king TYASTHAN,' or TIASTHAN. In the same manner, he has disfigured the name of the Balher kings, faying that Hippocuros was the place of residence of king BALER-CUROS, which is obviously a corruption for Balherghur, the fort or place of abode of king BALHER. Thus STRABO. in speaking of the country of Tej, in Cach'ha, calls it the kingdom of TESSARIOSTUS, thereby implying, that this was the name of the king; whilst Teffariostus is a corruption from Tejarashtr, or Teja-rosht, which fignifies the kingdom of TEJA, an ancient king, who built the town of Teja, to the eastward of the Indus. As king DEB-SAILA, or DE-SAILA, is called, in our lift, DI-SACA, or DEVA-SACA, which is also one of the titles of SALIVAHANA; this would induce an opinion, that DAB-SHELIM, or DI-SALIM, is the same with SALIVAHANA. But such is the confusion and uncertainty of Hindu records, that one is really afraid of forming any opinion whatever.

As it is faid, that it was by his order, that the famous treatife, called Jávidan-khird, or eternal wisdom, called also the will or testament of Hushenk, had been written; he has been probably, from that circumstance, made contemporary with that ancient prince, who began his reign, 700 years after the accession of Cal-umursh, to the throne of Persia. Cal-umursh, according to Masoudi, was the son of Aram, the son of Shem, who died 502 years after the flood.

MASOUDI fays, that Manhawer was also called the great Houza, which, translated into Hindí, is Burra-Houza, or Burra-Gouza, and has such affinity with Bary-Gaza, or in Sanscrit Bhrizu-Cach'ha or Bhrizu-Cula, Bhrizu's shore or beach, that I strongly suspect, that Masoudi mistook Baroach for Manhawer; and that the blunder originated from a want of knowledge of the Hindi language: Manhawer is also called Mahoura, by other Musulman writers.

Our compiler fays, that there were, in all, 36 kings, from Deva-Saca, to the year 802 of Vicramaditya, answering to A. D. 746: but we can make out only 29 from the list; for the five Pramaras must be rejected, as they do not belong to India. They are called, in this list, Ch'hárui-vi-hahá, which is an expression partly Sanscrit and partly Hindi, as usual in these lists. It signifies the four great destoyers, and is an allusion to the famous Chir-yári of the Musulmans; and which, as I observed before, is made, with a little straining, to signify, in Sanscrit and Hindi, the four destroyers, instead of the four friends and associates. Several of their names imply the abhorrence, in which the Hindus hold them; for one is called Savala, Cerberus or the infernal dog: another, Pramara or Parimara, is here meant for Mushammed, and signifies Yama or Pluto, the infernal and universal designifies

troyer. Cutapala, he who was fostered by Maya, or worldly illusion, otherwise the impostor, and perhaps intended for Moavyeh. Muhammed was originally introduced into this and other lists, because it was to the Hindus an ever memorable, though most unfortunate epoch, and from which their conquerors dated their facred Era. It is not to be supposed, that he was thus introduced into those lists, from an idea that he ever was Emperor of India. This was well understood at first; but the case is very different now. Such is the opinion of those who reject the legendary tales about Salivahana and Vicramadity, and this is by no means a new idea, for it is noticed in the Rája-Tarangini, which is a work highly esteemed in India, and of some antiquity: for it was presented to the Emperor Acbar, in his first visit to Cashmír, by learned Pandits, who considered it as containing the most authentic documents of the history of their country.

ABOUT the time of MUHAMMED, the descendants of DEVA-SAILIM, who for a long time had lost their rank of Visva-pati, lords of the world, Rajendra, Lords of kings, Raja-rajas, kings of kings; began to lose also their influence and power, even as vassal kings, and they even finally lost their patrimonial territories and kingdom, which was usurped by the Solanci tribe. It seems that they retired into the province of Malwa, in the vicinity of Ujjayini, where they lived in retirement, and entirely given up to devout contemplation, still very much esteemed and respected. There, at Ujjayini, we find one of them called Saila-deva; who found, in the wilderness, young Vana-Raja, and sent him to Radhanpur to be brought up; and this happened in the year 696; for Vana-Raja, when sifty years of age, built the

town of Narwaleh A. D. 746. (1) In the year 1025, we find another of them, living also in obscurity, and equally called DEVA-SAILA, or DAB-SHELIM; and who was raifed to the throne of his ancestors, by SULTAN . MAHMUD. The lift of the Bala-Rayas, from VANA-RAJA to RAJA CARNA, was originally the same with that to be found in the Avin-Acberi, excepting some variations; for it is hardly possible to find two lists in India exactly alike. The number of kings, in both, is twenty-three; and the aggregate sum of their reigns agree within two years. But the arrangement is somewhat different, and the years of each respective reign by no means correspond. Some kings are transposed, and the names of a few quite difagree; and each lift supplies also deficiencies, which occur in others. Owing to the uncertainty of Persian orthography, several names are strangely disfigured, both in the English and German translations; which last is by no means to be neglected, as there are particulars in it, not to be found, either in the manuscript list, or in the English translation of the Ayin-Acberi. Thus, for instance, RAJA-ADITYA is called RESHADUT in the English translation, and RA-SCHADAT by TIEFFENTHALER. VANA-RAJA is called BANSRAJE by the former, and Birj by the latter. The fummary history of the Hindu princes of Gujarát, in the Ayin-Acberi, contains many interesting particulars, not to be found in our lift. VANA-RAJA, according to our lift, was of the Chauda tribe, still extant in Gujrat. ABUL-FAZIL fays, that his father was called SAMANTA-SINHA; and the word Samanta implies, that he was a petty king, probably in Gujrát; but being of a base and turbulent disposition, he was put to death, by order of SRI-BHUADA-DEVA, Emperor of Canoge; and his family was plundered, as usual. His wife fled into the

<sup>(1)</sup> Ayin-Acberi, Vol. 2d. p. 89. 90.

forests, or Vana, where she was delivered of a son, called, from that circumstance, Vana-Raja. A holy man, called Saila-Deva, Deva-Saila or Deb-Sailim, happening to pass by, on his return, from Ujiayini, to Rádhana-pura, in the northern parts of Gujrái, took compassion on the woman, and gave the child in charge of one of his disciples, who carried him to Rádhana-pura, where he was brought up. He afterwards associated with a band of robbers; and at last seized the royal treasure, which was going to Canoge. He then made himself independent, and built the city of Narwareh or Narwaleh; and his friend Champa, a market man, says Abul-Fazil, and of the Bhil cast, (a very low tribe, according to learned Pandits from Gujrát,) built the town of Champa-nagara or Champa-nere.

THE next king, noticed by ABUL-FAZIL, is another SAMANT-SINHA; but this could not be his name, for Samant, as before observed, implies a petty king in Sanscrit, and vassal princes are thus denominated. Thus we read, that PRITHWI-RAYA had with him one hundred Samantas (1) or petty princes, commanding their own quota of troops. His name was probably Bhuada-deva, the immediate predecessor of Mula-Raja in our list, but the fourth only in the Ayin-Acberi. He gave his daughter to SRI-Dhundhaca, of the Solanci tribe, after whom the town of Dhundhaca, in Gujrát, is denominated.

KING JAMUND, in the Ayin-Acheri, is omitted in our list, probably because it is a corruption from Samanta, and a title belonging to MULA-RAJA. In his time, SULTAN MAHMUD GHAZNEVI conquered Gujrát; and, in the year 1025, replaced, upon the throne of his

<sup>(1)</sup> Ayin-Acben, Vol. 2d p. 118.

ancestors, Deb-sailin, a descendant of the samous king of that name, who led a retired life, entirely given up to devout contemplation. He is called Vallabha in our list, Beyser and Bipla in various copies of the Ayin-Acberi (1). Being a weak man, and blind, he reigned only six months, and was succeeded by the two sors of his brother, Durlabha and Bhima raja.

THEN appeared the famous VISALA-DEVA, with the title of CARNA-RAJENDRA, that is to fay, powerful and magnificent like CARNA, and lord Paramount over many kings. He is faid, in our lift, to be a Chaitura, that is of the Chitura tribe, still extant in Gujrat; (2) and after which the famous place of Chaitur or Chaitor is denominated. He was therefore a native of Mewar, now called the Sircar or province of Chaitor. This induces me to believe, that he is the fame with Visala-DEVA, mentioned in the inscription upon the pillar of FIROZE, at the hunting seat of the Emperors near Dilli, and called Stambhacamandira in the appendix to the Agni purana; that is to fay, the palace with the pillar. There he is faid to be king of Sacambhari, which is probably the town of Cambher or Cambher-nere, in the province of Mewar. At all events, it was certainly in that country, as I shall shew hereafter. His father VELLA-DEVA was originally a petty king of that country, and his fon VISALA-DEVA caused that pillar to be erected, in the year 1164, and thus the times coincide. VISALA probably availed himself of the indolence and supineness of the princes of Ghazni, and drove the Mlech'has, or Musulmans, out of Aryavarta, or the land of virtue, thus making it, once more, what its fignifies according to the infeription. Aryavarta

<sup>-(1)</sup> Ayin-Acberi, Vol. 2d. p. 91, 95.

<sup>(2)</sup> See Ayin-Acberi, Vol. 2d p. 84. The true name is, I am told, Chittrore.

includes all the north of India, from the fnowy mountains, down to the Vindhyan hills. He destroyed all the princes who refused to . fubmit, and kindly treated all those who did; and having visited all the places of worship, through his extensive domains, he retired to Sácambhari, to end his days in peace and rest, exhorting all the kings of India, not to flumber, but to go on with his plans, and follow his meafures. He is mentioned also in the Sarngad'hara-paddhati, written by SARNGAD'HARA, grand fon of RAGHU-DEVA, spiritual guide of HAM-MIRA, king of Mewar, or Sacambhari-desa, nearly in the fame words with the inscription, which was written in the year of Vicramaditya 1220, answering either to 1164 or 1154 of CHRIST; for in that country they reckoned the Era of VICRAMADITYA, ten years earlier, than in the eastern parts of India. He was succeeded by JAYA-SINHA, called also SIDDHA-RAJA, SIDDHA-RAJESA, and in the dialect of Gujarat, SIDDHA-RAJESAGA-DE for DEVA. It feems that VISALA-DEVA left no male iffue; for no children of his are recorded in the above inscription, which would not probably have been the cafe, had he left any. Who this IAYA-SINHA was, is unknown; but it feems, that CUNHWAR-PALA, a near relation of his, was the lawful heir; at least ABUL-FAZIL fays, that the latter, from the dread of losing his life, lived in obscurity, during JAYA-SINHA's reign; after whose death, he ascended the throne, but was poisoned by AJA-PALA, the son of JAYA-SINHA.

THE next is Luc-Mula-Raya, mentioned in the Ayin-Acheri, but omitted in our lift, unless he be the same with Balu-Mula, or Baluca-Mula, called Birdmool in the English, and Hardohn in the German translation. They are probably the same individual; for what is afferted of Luckmul in the Ayin-Acheri, is affirmed of his supposed successor in

our lift; namely, that after his death, the nobles elected a prince of the Bhagela tribe, called BIRDMOOL in the Ayin-Acberi, (1) and BHALA-BHÍMA-DEVA in our list: The latter's name is split into two, and two. princes made of them, in the Ayin-Acberi, under the names of BEIL-DEO and BHIM-DEO. (2) Be this as it may, LACMUL-RAYA, whose real name was Lac'han-mula-Raya, or fimply Lac'han-Raya, from the Sanfcrit LACSHANA-RAYA, is well known to Eastern writers, under the name of LAGHAM-RAYA. (3) He was born of obscure parents, and raifed himself by his own merit, and ultimately became emperor, or Bala-ráyá. He governed with justice and equity: but after a long and prosperous reign, and when he was above eighty years of age, he was disturbed in his possessions, by MAHMUD-BACTYAR GHILLI general of SULTAN-MAHMUD, who began his reign in the year 1205, and died in 1200. In the years 1207 and 1208, that general was in Bengal; and, therefore, he must have invaded Gujrát in the year 1209; but the death of the Emperor probably prevented his completing the conquest of that country. For, though the authors cited by D'HERBELOT fay, that he effected the reduction of the country, yet ABUL-FAZIL fays, that it was a mere incursion, (4)

THE reigns of SIDDHA-RAJESA, of his cousin Cunhwar-Pala, and of AJA-Pala, fon of the former, are obviously too long; for they amount to 73 years in the Ayin-Acberi, and to 113 in my lift, which

<sup>(1)</sup> Vol. 2. p. 91, 95.

<sup>(2)</sup> Ayin-Acberi, Vol. 2d. p. 95.

<sup>(3)</sup> See D'HERBELOT V. LACHAM-RAYA.

<sup>(4)</sup> Ayin Acberi, Vol. 2d. p. 92.

is hardly possible; and it is not unlikely, that LAC'HAN-RAYA was the prince, minister of VISALA-DEVA, mentioned in the inscription; for he ·was above 80 years old, at the time of the invafion of Gujrát, by MAHMUD BACTYAR. There is fuch a disagreement, in the lengths of the respective reigns of each king, in the various copies, that no certain inference can be drawn from them; and I noticed before a few transpositions: we must therefore remain satisfied with the grand outlines. VISALA-DEVA was not a native of Gujrát; and, though a Bala-ráyá, or lord Paramount, he was not king of that country, but of the Mewar, or Sacambhari; and of course his supremacy did not in the least interfere with the order of fuccession of the kings of Gujrát. He belonged to no dynasty, and reigned, as well as his prime minister, collaterally with Sto-DHA-RAJA, and his relatives; and after the extinction of that family, LAC'HAN-RAYA was not only Bala-raya, but became also king of Gujrát, and resided in the metropolis of that country, both as an Emperor and as a king, during a space of twenty, or according to some, only eight years.

THE last Bala-raya was CARNA the Gohila, who fled into the Deccan, when SULTAN-ALLA-UDDIN conquered Gujrat. This happened, according to our list, in the year of VICRAMADITYA 1365, or A. D. 1309.

AT that time, the famous RATNA-SINHA was king of the mountain ous country of Méwar, and resided at Chaitór. He was descended from Khosru-Perviz, called also Nushirvan; and his amours with the beautiful Padmavatí or Pedmaní, are the subject of a poem, both in Hindí and Persian. Her beauty was the innocent cause of a bloody war, between the Rája and Sultan-Alla-uddin, which ended in the

destruction of her lord, and his son-in-law RAWUL-ARSI, a Chauhan-HAMMIRA, the son of the latter, sled from Chaitor, sheltered himself among the more mountainous parts of Mewar, and maintained his independence, as king of that country, and made Sacambharí the metropolis of his little kingdom. Mewar is divided into three parts, Chaitór (1), Cambher (or Cambher-nere for Cambher-nagara) and Mandala (or Mandalica) built by king Mandalica of the Bhil tribe, and who lived about the year 796. (2) Cambher is probably the same with Sacambharí, which was certainly situated in Mewar.

Sultan Muhammed K'huni, or the murderer, gave the government of Chaitor, and Mewár, to Mala-deva, a Chauhán, and king of Jalór: but the latter was unable to reduce Hammíra, though he had defeated him, in a bloody engagement, near the fea shore, according to the appendix to the Agni-purana. He then made peace with him, and gave him his daughter in marriage (3); but after his death, Hammíra murdered all his sons, and usurped the kingdom. This happened, according to the appendix to the Agni-purana, in the year of Vicramaditya 1490, which is impossible; and we must read 1390, or A. D. 1334; for Sultan Muhammed began his reign in 1325, and died in 1351. In that appendix it is declared, that the base murderer was at last defeated and slain, by the joint forces of Secunder governor of Gáya, Jalala governor of Dilli, and a body of Yavanas (Turcomans or Mogols) commanded by Uluc'haga, perhaps for Ulugh-khan, a title of honor sometimes

<sup>. (1)</sup> Ayin Acberi, vol. 2. p. 97.

<sup>(</sup>a) Ditto ditto, p. 98.

<sup>(3)</sup> Ditto ditto, p. 101.

bestowed apon noblemen, by the Emperors of India. In the English translation of the Ayin-Acberi, Hammira is erroneously called Jemeer. The dynasty of the princes of Malwah was a collateral one with those of the Bala Ráyás, though it be placed between Nri-pati and Vana-raja in our list. Such mistakes are not unfrequent among Hindu Chronologers: but as Vana-raja's dynasty began in the year 746, and that of Malwah began in the year 191, and ended about the year 977, it is obvious that they were collateral, and I have arranged them accordingly. In the dynasty of the princes of Malava, Gardabha and his son Vicramaditya reappear; and, in the room of Surya-Sena, or Śri-Suryansa, we have Śalivahana; which confirms my former conjecture, that they were but one and the same individual.

My Pandit observes, that many of the names of the Princes, who reigned before Vana-raja, are not proper names of individuals; but belong, either to tribes, or ancient families, from which they sprang, or to small districts, or towns, their patrimonial estates, and with which he is well acquainted; and many of these names are in the plural form. Thus, Jaliya, the name of a king, implies only that he was a Jaliya, or of the Jalim tribe, which is settled on the banks of the Mahi.

Musulman writers fay, that the metropolis of those Baler kings was equally called Balhar, as well as the mountains among which it is situated. (1) It was in a country belonging to the Chauhan tribe, the chief of which generally resides at Alimohan (2): and it became the

<sup>(1)</sup> See D'HERBELOT'S Bibl. Orient. v. BALHAR.

<sup>(2)</sup> This is also confirmed by ABUL-FAZIL. See Ayin-Acberi, Vol. 2d. p. 87.

metropolis, when that tribe usurped the rank and power of Bala: Ráyās. It is declared in our list, that the Chauháns were, at some period, rulers of the whole country, as Bala-Ráyás; but our author has forgot to point out, in the list, the princes of that samous and ancient tribe.

In the fifth century, Tamra-nagara, or Cambat, was the metropolis of the Bala-ráyás; and perhaps of the Emperors of the west also, when these two dignities happened to be united in the fame person; and it was the place of residence of the father-in-law of GARDABHA, or BAHRAM-GUR, called SADASVA, SADASVA-PALA, VESUDHA and TAMRA-SENA, from his metropolis, Tamra-nagara, or Tamra-pura, fignifying the Copper city, which is supposed, accordingly, to have been intirely built of that metal. It was near Cambat; but tradition fays that it was fwallowed up by the sea; and Cambat was a famous place of worship, called, in the Puranas, Stambhastha-Tírtha (1) from a Stambha or column, close to the sacred pool. Now, a column is called Camba in the spoken dialects; and from Cambasta, is derived its present name of Cambat. Stambhastha and Tamrapura are called Asta and Traperá, by the author of the Periplus; but PTOLEMY, confidering these two places as one only, for they were close to each other, calls it Astacampra or Astacapra; and instead of Tamras which fignifies copper, he writes Campra or Capra. The reason, why he has carried this place so far inland, on the banks of the Mahí, is, that either he, or fome other writer, mifunderstood the natives, who have no word for a bay or gulf, and use generally the word river instead of it, particularly when there is one at the bottom of the gulf, as in the prefent case. (2) Osorio, a Portugueze writer, says, that when Francis

<sup>(1)</sup> Cumáricá C'handa.

<sup>(2)</sup> Cola fignifies only a Creek.

D'ADMEIDA landed, near Cambát, in the year 1519, he faw the ruins of fumptuous buildings and temples, the remains of an ancient city, the history of which was connected with that of a foreign prince. My Pandit informs me, that such ruins exist to this day, not close to Cambát, but at a place called Cavi or Cavi-gauw to the south of Cambát, on the Baroach side, and a little to the southward of a place called Cáná, and in the maps Canwa. There are temples and ather buildings, with statues half buried in the sands, with which this place was overwhelmed. Its Sans-crit name is Capila-gram, from which is derived its present one.

THE promontory of Afla. Campron, mentioned in the Periplus, at the entrance of the gulf, appears to me to be Groapnaught point. It was thus called, because it was on the fide of Stambha, and Tamra, or Cambat. Another name for it was Pápicá, from a place of that name in its vicinity. As it is the same place called Pakidare by PTOLEMY, the true reading will fland thus Bhaucá-derá, Bhauki-derá, Bhaui, or Bhávicá-derá, that is to fay, the house or dwelling place of BHAU or BHAUI, an ancient hero of that country, who built tho town of Bhau-nagara, or Bhavi-gauw, and probably the same with Bhau-ki dera. Beyond this cape, according to the Periplus, there is another place, toward the north, much exposed to the waves; and at the entrance of it, that is to fay, of the channel leading to it, is an island called Baiones. This island is that of Berum, at the entrance of the channel, leading among shoals to the dwelling place of Bhaui, or Bhau-nagara, on the river Bhaui, and near the point of the fame name. There is also a fand thus called; and the island of Baiones probably claims the same etymological origin; and perhaps, inflead of Baiones in the original, we should read Baio-nesos, or the island of Bhau or Bhaui. This place, fays our author, is difficult of access, on

fharp rocks at the bottom of the sea. This island was once the seat of government, according to Abul-Fazil, who calls it Birum. (1) Opposite to Bhavi-gauw, says the author of the Periplus, and on the right side of the gulf, in the narrowest part of it, there is a reach, where the land near the sea appears much broken, and consists entirely of clay. It is called Heroné, and there is a place called Cammoni or Camané. This reach is the sea coast between the Narmadá and the Jambusser river. My Pandit observes, that the country between these two rivers, and along the sea coast, is called to this day Canum; but he does not know of any particular place so called. There is not a single stone to be seen; and the country is slat, the sea shore much indented, and there are very sew trees: but it is probable that it was otherwise formerly; and Heroné is perhaps from the Sanscrit Aranya, which signifies a thick, but not impervious forest.

PTOLEMY has confounded the points of Swalley, Diu and Jiggat into one, which he calls Balaion, probably meant for Diu head, a name given to it by Europeans, but unknown to the natives; and the nearest place of note to it is Weylanoo in Major Rennell's map, from which Balaion or Valaion seems to be a corruption. The island called by him Baraké is Dwáracá, as obvious from its relative position; and Baraké may be only a mistake for Dwáracá. Besides, these two denominations are synonymous, or nearly so, and imply a door or gate-way, Dwára is properly the opening, and Bhár is the bar, or barriere, or the leaves of the door, with which the opening is kept barred or shut; and it is used, though improperly, for the door itself. It is used in that sense

<sup>(1)</sup> Ayin Acberi, Vol. 2d p. 83.

enly in the west of India; yet the verb derived from it, barna, in the infinitive, and bar in the imperative mode, is used all over India, except in the peninsula. Twashta, the chief engineer of the Gods, having built a palace there, for Ranachursi or Crishna, (that is he who sled from the field of battle,) and Tricumsi his brother, placed many of the doors the wrong way; and those that were properly situated were barred or shut up. When sinished, every body crowded to see it; but were assonished, to find the doors either placed wrong or barred; and great was the consuson and the uproar, some calling out Dwara-c'hanh? where is the door? and others bawling out Bharco-col, open the door; hence the place was ever since denominated Dwaraca; and this ridiculous etymology is countenanced in the Puranas.

The geography of Ptolemy, in this part of India, is distorted to an association as as as a few missakes, which I have mentioned, he supposes the river Mahi to form an elbow, and to run close to the Narmada, with which it is made to communicate, through a short canal; and then afterwards to fall into the gulf of Cántha, or Cachha. We were guilty of as gross an error, two centuries ago; for we made the Indust to fall into the gulf of Cambát. The Mahi is a celebrated river, and the daughter of the earth (Mahi,) and of the sweat (ushna,) that ran copiously from the body of Indradyumna, king of Ujjayini, and samous in the legends relating to the white island in the west. The place where this happened, in consequence of a most servent tapasya, was called Ushnahi and Ushmahi, and is probably the Axuamis or Auxomais mentioned by Ptolemy. The author of the Periplus (1) says, that at the mouth of the Narmada, they used boats, which they called Trappaga

(a) Sodion of the camb.

<sup>(1)</sup> P. 25, and 34.

and Cotymba; and we read in the Ayin-Acheri, that in Gujarat' the cargoes of ships are put into small vessels, called Tahwery, and thus carried ashore (1). My Pandit informs me, that the true pronounciation is Taberi, in a derivative form Taberica, from which the European failors made Trappaga. Cotymba is no longer in use in that country; but, from derivation, it implies a boat made of the trunk of a tree, and feems to answer to the cathimarans on the Coromandel coast. 'When,' says our. author, 'feveral of these canoes are put together, they are then called Sangará,' (from the Sanscrit Sangraha an affemblage;) but in Gujarát' they are called Júrá, from their being coupled together. The king of the country about Calyan and Bombay was called SARAGANES; but the true Hindu name was SARANGA, or SARANGESA. He was very friendly to the Greeks; but, his kingdom having been conquered by SANDANES, they were no longer allowed to trade there (2). He was king of Ariake, the country of the Aryyas; who were foreigners, according to the Brahmánda-purana (3), and were denominated SADINOI, according to PTOLEMY, from the Sanscrit Sadhana, lords and masters. Thus, the Portugueze were, and are even to this day, styled, in Bengal, Thacurs. The English, in the spoken dialects, are called Saheb-logs; but, by learned men, Sádhana Engriz; and all these denominations fignify the lords and masters. Thus, the famous BHOJA is generally styled, in the west, SADHA-NA, or Sadhana Вноја. Such probably is the origin of the name of SANDANES, king of the Sadinoi, or Sadhanesa. I shall speak more fully, in the next effay, of these Aryyas, in whose country was a samous city, called by PTOLEMY Banawasi. It still exists, and great was its same in

month of the Agreed a they uled boats, which

30 lan 22 H (s)

<sup>(1)</sup> Vol. 2d p. 78.

<sup>(2)</sup> Arriani Peripl, p. 30.

<sup>(3)</sup> Section of the earth.

fruitless. but my inquiries concerning it have hitherto proved

In the eighth century, VANA-RAJA built Narwaleh; and his friend CHAMPA built also the famous town of Champá-nere. In the tenth century, according to MASOUDI, Manhawer became again the metropolis of the Bala-rayas; but in the latter end of the eleventh, and in the beginning of the twelfth centuries, they returned to Narwaleh or Narwareh; and in the year 1022, SULTAN MAHMUD paffed through it, and was much delighted with its fituation. The Princes of Malwa refided at first at Ujjayini, but MUNJA transferred the seat of Empire to Sonitpura in the Dekhin, according to the appendix to the Agni-purana, and now called, after him, Munja-pattana. It is fituated on the banks of the Godaveri; but whether it be the same with Pattana, or Pratishtana, where Salivahana is supposed to have resided, is unknown to me; though I suspect, that the latter is a little higher up the river, and is called Baithana by PTOLEMY, who fays, that in his time it was the metropolis of king SIRI-POLEMAIOS, the nearest denomination to which, in Hindi, is SRÍ-PULOMA, or SRÍ-PULIMANA. Sonitpura implies the city of blood, and was thus called, according to tradition, because MUNJA's army was defeated there, with immense slaughter, and himself loft his life. His being killed in the Deccan is mentioned in the Ayin-Acberi (1). The old city of Benares, north of the river Burná, and now in ruins, is fometimes thus called, and tradition variously accounts for it. Munja's fuccessor resided afterward at Dhara-nagara, now Dhar, and called also, according to lexicons, Asárapura, Asára-griha or Asáragur; which is probably the town called Zerogere or Xerogeri by PTOLEMY.

Chair-e-aw, on the four afficiation

<sup>(1)</sup> Vol. 2d. p. 55.

Bamun-gara, mentioned by the same author, is probably Bamun-gauw, or Bamun-gur, on the northern bank of the Narmadá, about thirty miles S. W. of Mandow, and noticed in a route from Sultanpoor, on the Tapti. to Ujjayini.

THE immedate predecessor of VANA-RAJA, at least in the corrected list, is styled NRI-PATI, the lord of men, or the emperor; but there was an interregnum; for there were, at that time, neither Bála-Ráyás nor emperors in Gujarát'; and the whole country was subject to the emperors of Canoge; for VANA-RAJA seized upon the royal treasure, on its way from Gujarát' to that metropolis.

In these lists, and also in those from the Puranas, the names of many kings, posterior to the Christian Era, are hardly reducible to the Sanscrit standard; and most of them seem to be epithets, and nicknames, borrowed from the vulgar dialects; or else names of persons of low tribes.

In our list we read first, "then will appear princes of the Chauhána, Chawda and Gohíla tribes." Di-saca, the first emperor, was a Yadava, or from the Yadu tribe. After the eleventh king, called Dahima, "then will appear the following tribes, the Chálas, Macwánas, Hunas, Bhoanas;" all names in a plural form: and these tribes, except the Hunas, belong to Gujarát, and are still extant. What the author meant, by introducing them here, is not easily conjectured: but I suppose, that there was an interregnum, during which, these tribes became independent, in their own districts." Then will come Nicumbha, the Jália, "or of the Jálim tribe." His successor was Tháca; when the Ch'hárui-vi-hahá appeared: "in some copies we read Ch'háruada-vi-hahá, and the sirst part is to bepronounced nearly Ch'háruara, answering to the Persian Chár-é-aur, or the sour associates.

. The third table contains RAGHU-NAT'HA's lift, as current in the eaftern parts of India. It begins with the Cali-yuga, or rather with the Mabá-Bhárata, or great war: but I have omitted the first part, prior to the times of MAHA-BALI, as it has not the least affinity with the lists from the Puranas, and throws no light on that part of the ancient hiftory of India. MAHA-BALI, according to the present list, reigned forty years and eight months; which is conformable to the Puranas, in which he is faid to have reigned 40 years, including the 12 years, during which his fons, the Sumályádicas, reigned together, and which are generally ascribed to him. From the first of his accession, to the first year of Vicramaditya's Era, the present list allows 298 years, 6 months and 9 days; to which 56 years being added, it will place his accession to the Imperial throne 355 B. C. which is very correct, as I have shewn in my effay on Anu-Gangam. Unfortunately, it is the only correct part in the whole lift. The fuccessor of MAHA-BALI was CHANDRA-GUPTA, or CHANDRA-PALA, fostered or concealed by LUNUS; and who lies here concealed under the name of AMRIT-PALA, for LUNUS is but a mass of Amrit, which CHANDRA-GUPTA is supposed to have been fed with, during the time of his concealment; and a reign of 28 years is here affigned to him, as in the Puranas.

FROM the first of ADITYA'S Era, to the first of Sudraca, there are 347 years, answering to A. D. 291: but in the Cumáricá-c'handa, it is declared, that he began his reign in the year of the Cali-yuga 3291, or A. D. 191; and other circumstances prove, that this date is true, or very nearly so. There are, to fill up that space, only nine kings, whose reigns are of an excessive length; and 100 years exactly must be struck off. Sudraca is also styled Vicramaditya; and here is the most mate-

rial difference, between the various copies of the Vanfaush: for in those current in the west, instead of Sudraca, we read Vicramaditys whose predecessor was Bhartri-hari, or Sacwant and Samudra-pala his successor.

FROM the first year of Sudraca, to the first of Vicramaditya the fon of Bahram Gur, there are 342 years, and only sifteen kings to fill up that space. He began his reign A. D. 441, or 442, and of course we must strike off 100 years more from that period.

FROM the first year of this Vicramaditya, to Mahabhat and the first of the Hejra, there elapsed 196 years; which is about 16 years too many. From this period, to Deva-Dhara-spnha or Bhója, 148 years; which is too little by about 200 years; but by introducing here the 200 years we have struck off before, it will place either the accession, or death, of Bhója, in the year 970. From Bhója to Trai-Lócya-Pala, or Java-Chandra, 192 years. Sudraca, Suraca, called also Aditya, Srí-Carna-Deva and Srí-Carna-Raja-Vicrama, was a famous conqueror and most powerful Emperor. He is introduced, in the list of the kings of Bengal, as one of the successor of the famous Bhaga-Datta, the son of Naraca, king of Pragyetista, in Assam; and to whom Caneya the black, or Crishna, restored the kingdom, after he had killed his father.

In that lift, he is supposed to have lived 1367 years after the Mahás-Bhárata; which will place him about the beginning of the Christian Era; but, according to the Jainas, who place the beginning of the Cali-Yuga about 1000 years B. C. this will make his reign coincide nearly with the period affigned to it by the Pauránics.

The last king of Bengal was LACSHMANYAH, who was deprived of his kingdom by MUHAMMED BAKTHYAR, the general of COTUB-UD-DIN, about the year 1207; for, in 1209 the same general was in Gujarát, and the Emperor died also in that year. From the first of Śri-Carna-Deva, or Sudraca, to 1207, there elapsed 1017 years, during which reigned 49 kings, at the rate of about 20. 7 years to each reign. The last dynasty in this list, consists of seven princes, who reigned 106 years in all.

THE dynasty next to this is remarkable, for the epithet of Pála, which every one of them added to his own name, or title. The first of that dynasty was BHU PALA, who was still alive in the year of VICRAMADI-TYA 1083, answering to the year of Christ, either 1017, or 1027. BHU-PALA had two fons, STHIRA-PALA and VASANTA-PALA, who erected a fingular, and at the same time sumptuous monument, in honor of Budd'HA, at a place called Sarnath, near Beneres. This was in the year of VICRAMADITVA 1083, as recorded, in an inscription, found there some years ago, and inferted in the fifth volume of the Afiatick Refearches, Tradition fays, that before it was completed, it was deflroyed by the Musulmans; and there is every reason to believe, that this was really the case. For the arches and vaults, of the greatest part of the buildings, which are now buried under ground, still retain the supports of fundried bricks, over which the arches were turned. In the year 1017 SULTAN MAHMUD took Benares, and the town of Cafam, or Cufuma, now Patna, and went even as far as the country of Ouganam, or Unga, to the west of the Coffim-bazar river. The next year, he overrun again these countries, and penetrated as far as Kifroje, or Cachha-Raja, in the northern parts of Bengal, called Koge by FERISHTA, and Couche by



European travellers of the 15th, and 16th centuries, (such as R. Fitch:) and Cug or Coos-Behar made part of it. In a manuscript account of Benares, compiled for me, by learned men, about sixteen years ago, it is said, that according to tradition, this monument was built by a powerful prince, called Buddha-sena, an epithet which implies, that this king, whosever he was, was a zealous follower of Buddha. He abhorred the Musulman name, and during the very first invasions, he was summoned to submit, and pay an yearly tribute, but resused.

THE Mufulman army advanced, put every body to the fword, and destroyed the fort and the place; and it is obvious, from the remains, that neither was completed. With regard to the date 1083, it was fuggested to me, that it may answer, either to the year of CHRIST 1027, or 1017; because formerly the Era of VICRAMADITYA was reckoned ten years earlier than now; and this mode of reckoning is fill in use in the fouth of India. It was in use in Cashmir, at least some hundred years ago, as appears from the Rája-Tarangini. When this alteration took place, and when it was received in the northern parts of India, is not known. On my asking the reason of this correction, my learned friends did not appear to understand the subject well: but, from what I could gather from their conversation, it appears to me, that their ideas on this subject were, that the years of the Era of SALIVAHANA, being Sydereal, are not subject to any variation. That the years of the Era of VICRAMADITYA, which are now Luni-Solar, were not fo formerly, and that the Lunar years of it, instead of being regulated by the course of the Sun, and adapted to it, were formerly regulated by the revolution of Jupiter, the years of which were believed, at that early period, to

be equal to as many Solar years (1): for this planet, as feen from the earth, comes back to the same point in heaven, after a period of twelve years and five days; and in the Deccan, they reckon the Cycle of Jupiter ten years earlier than in the northern parts. When the error was discovered, the years of Vicramaditya were made Luni Solar, and they retained no further connection with the revolution of Jupiter. They added, that several corrections, more or less perfect, obtained at different times, and particularly, one of sourteen years, ascribed to Bhartrihari, or rather referred to his time; and which was said to have been the length of his reign.

In that case, the demolition of the monument, which we are speaking of, took place in the year 1017, during the invasion of Mahmud; for from that period, the Hindus, in this part of *India*, remained for a long time unmolested by the Musulmans. Modud's invasion, in 1043, was directed toward the south; and in that direction only, he penetrated further than Mahmud, as recorded in history.

KING BHU-PALA is called also Mahi-Pala, in this inscription; but these two epithets are synonymous, and signify he who softers the earth, or world. Sthira-Pala, called Dhir-Pala in the Ayin-Acheri, had a son, called Deb-Pala, or Deva-Pala; who, in my opinion, is the same who is mentioned in the grant found at Monghir, and in the inscription upon a pillar at Buddál. His father was Dharma-Pala, which probably was the title given to him, when he succeeded his father Bhu-Pala, called Gó-Pala in the grant. The Hindus always have two names, one of them answering to our Christian names, and used in the performance

<sup>(1)</sup> Afiatic Refearches, vol. 111. p. 216, &c.

of religious rites. Besides, kings have at least one title given to them, besides nicknames occasionally; and it is allowed to make use of synonymous terms; and thus Gó-PALA, on ascending the throne, was indifferently styled Bhu-PALA and Mahi-PALA. The son of Sri-Deva-PALA was Raja-Pala, perfectly synonymous with Bhupati-Pala, as he is called in the Ayin-Acberi: for all Rajas are equally denominated Bhú-pati.

As the Hunas or Huns, are mentioned in the inscription at Buddal, SRÍ-DEVA-PALA must have lived at a period comparatively modern; for the Huns made their first appearance, on the borders of Persia, in the time of BAHRAM-GUR, who began his reign in the year 421. In the year 458, Balkh was their metropolis; and, in the beginning of the feventh century, they were fettled in the Panjab, according to COSMAS INDICOPLEUSTES, who calls them white Huns; and they are the fame, of course, with the Abtelis, Abtelites or Enthalites. It is the opinion of feveral well informed men, from Cabul and the adjacent countries, that the Abdalis existed, as a nation or tribe, long before MUHAMMED; and that the denomination of Abdali is not derived from the Persian word Abdil, the servant of God. In that case, they may be a remnant of the Abtalis, or Abtelites. It was about that time, that the dynasty of the Hunas, in India, began, and which is recorded by the Pauránics. There were thirteen kings of them, and eleven more under the name of Maunas, as it is supposed; but whether in due succession, or in a collateral line, or only partially fo, is unknown. We find that their power extended even into Gujarát, as I observed before, about the Era of MUHAMMED; and some think that Mauna is a contraction from Mac'hwana or Maha-Hunas; for, in the west of India, they say Maga, and write Macha, for Maha; and, instead of MUHAMMED, they say

AT and MAC'HOBHAT, as we used to do formerly in the were the Macwanas are noticed in the Gujarat lift, and also in the lifts from the Puranas, in the chapters on futurity. In the Faciimile of the grant of Monghir, in the first volume of the Asiatick Refearches, the date is plainly 132, instead of 32; but, had it been as obvious in the original, MR. WILKINS, and the Pandits, who read it with him, could not have been mistaken. To decide this, recourse must be had to the original, which is, I believe, deposited with the Royal Society. The two Musulman travellers of RENAUDOT, in the ninth century, remark, that the Hindus did not, like the Arabs, use a general Era, but reckoned the years from the accession of the reigning prince. This is acknowledged by the learned in India, and that it was the constant practice, till a period comparatively modern, and the limits of which it is not eafy to afcertain. Several princes have attempted to fet up Eras of their own, and thefe princes, inflead of Saca-bandhis, or Sacwantas, were ftyled fimply Samvaticas, or Santicas. Thus, VICRAMADITYA'S Era was confidered as Saca, for the space of 135 years, and himself was then a Sac-wanta: but his Era is now Samvatfara, or Samvat, and himfelf only a Samvatica; and the present Sacwanta, or Saca, is SALIVAHANA. The Pandits, who affisted ABUL-FAZIL, took particular notice of that circumstance, and carefully pointed it out to him (2). As the date in the Monghir grant is within the 135 years, during which the Era of VICRAMADI-TYA was Saca, it should have been styled thus, and not Samuat; and hence it may be concluded, that the date has no connexion with that Era.

<sup>(1)</sup> See Tamuli dictionary.

<sup>(2)</sup> Ayin Acberi Vol. 1. p. 331.

THE reason, why the famous SRI-DEVA-PALA is not mentioned in the lists from the Puranas, is, that he lived in too modern times, for they do not come fo low. After the invasion of SULTAN-MAHMUD, in the years 1017 and 1018, the Hindus enjoyed some respite, till the last Mahábhárat, or great war, in 1192, when all the heroes of India fell in the plains of Thanu-Sar. During that period, SRI-DEVA-PALA might bumble those of Dravira and Gurjarát' (that is to say the Bala-ráyás), and the Hunas in the Panjab; for he by no means conquered them: and he probably humbled them only, by refufing to pay fome yearly tribute, and putting on a bold countenance, at the head of a powerful army. It feems, however, that he marched though the Vindhyan hills, to the west of the Jumna's and then went into the Panjáb, as far as the borders of the kingdom of Cámboja, or Ghazni. The time, in which this expedition took place, cannot be ascertained, but within certain limits. After Modup's invasions in the year 1043, the Hindus recovered some strength and courage, under, the weak reigns of Togrut the usurper, and Furruck-ZAD. The enterprifing IBRAHIM fucceeded him; but it was not till the year 1079 that he was enabled to lead an army into India; and probably the expedition of SRI-DEVA-PALA took place, betweeen the years 1052 and 1059, during the weak reign of FURRUCK-ZAD, of whom nothing is recorded.

The list of the kings of Bengal, in the Ayin Acberi, was formed by Jainas, who place the beginning of the Cali-yuga only 1078 B. C. but it was afterwards altered by the followers of Brahma, and the beginning of it placed 3100 B. C. and the reigns of every king prodigiously lengthened, in order to make the whole coincide with the first year of the Cali-yuga. The Rajás of Sirinagur pretend to be descended from

BHAGA-DATTA, contemporary with CRYSHNA; but in their pedigree, communicated by the present king, to CAPTAIN HARDWICKE, in the year 1796, it is acknowledged, that for the space of 900 years after BHAGA-DATTA, nothing is recorded of his successors, not even their names (1). If the same correction be introduced into the list of Bengal princes, it will place the reign of ANANGA-BHIMA in the first century before the Christian Era, and bring the whole list, at least, within the bounds of historical probability.

Through the uncertainty of Persian orthography, and the carelessingured; the names of these Princes are most miserably
disfigured; and I shall only observe here, that the real names of the
three predecessors of Sudraga, are Sangara-sinha, Satrujita, and
Bhupati-pala, or Raja-pala. His successor's name is Jayadraga,
called Crishna in the Puranas, and said there to have been his
brother.

I SHALL now produce another list, which was brought from Assame by the late Dr. Wade, and given by him to Mr. Harington. It was originally the same with the Vansa vali, but it was new modelled according to the ideas of the Jainas; though, I must confess, that it is difficult to say which is the original one. Be this as it may, it is certainly a most curious list, and in some instances it affords useful hints.

id in the Gaples of the Louisvoiced belly	yrs.	7715.	days.
To Yudhisht'hira,	1880	8	10
To MITRA-SINHA,	296	6	9.
To Nei-sinha	497	0	10

<sup>( 1 )</sup> Afiatick Refearches Vol. 6. p. 338.

To VRIJA-PALA,	ultry		334	6	19	
To SADASVA-PALA, .	The state of		327	11	9	STATE
To Hamir,			152	0	1	
To Madhava-sena, .	•3/1		107	1	22	
To SAILADHARA OF BHÓJA,		2	354	7	22	DINE
To RATI-PALA,	20000		85	7	7	

In this lift, MITRA-SINHA is meant for JINA, and NRI-SINHA for GAUTAMA; and YUDHISHT'HIR is placed here, by the followers of JINA, in the 1881st year of the Cali-yuga of the followers of BRAHMA, but in the beginning of their own, for which they have two different reckonings. According to one, the Cali-yuga began 1078, but according to the other, 1219 B, C.; and this last computation has been adopted here. According to it, JINA or SACA was born 1207 years (1) B. C. or 12 years after the Cali-yuga and CRISHNA (2). He lived 257 years, and died accordingly 950 years B. C. Those who place the beginning of the Cali-yuga 1078 B. C. say, that JINA was born in the year 1108, and died in 1036. Others, admitting the same Era, say, that he was born in the year 1036, and died A. D. 950; and thus, whether he lived 257 or 77 years, his death equally happened in the same year before Christ.

THE NEXT IS NRT-SINHA OF GAUTAMA: NRT-SINHA is a well known title of SALIVAHANA, and in the Gujarát list I mentioned before, SALIVAHANA is introduced in the solar line, in the room of SUGATA or GAUTAMA. This explains a passage from the Varáha-fanhita, in

<sup>(1)</sup> See Kempfer.

<sup>(2)</sup> Afiatic Researches, vol. 2d p. 122 and 150 10 V and and administration (2)

which it is faid, that Salivahana, or Saca, the ruler of the period denominated after him, appeared when 2526 years of the Era of Yudhisht'hira had elapsed; that is to say, he was born 574 years B. C. and the year 544 is considered as that, either of his manifestation to the world as a legislator, or of his ascension into heaven. The Jainas, as well as the followers of Brahma, claim Salivahana as their own, and suppose that he manifested himself several times to the world; and as there are several Vicramadityas, there are, of course, several worthies of the name of Salivahana.

VRIJA-PALA, or BRIJA-WALA, is the famous MAHA-BALI: for the kings of Magadha were thus called, as I observed in my essay on Anu-Gangam; and this title was distorted into BIRDWAL and BERDAUL by Musulman writers. He is placed, erroneously, a little before the Era, of VICRAMADITYA, by the compiler, for reasons which will appear immediately.

FROM this famous Emperor, he passes to Sadat-Pala, or Sadasva-Pala, sather-in-law of Bahram-Gur, and who gave him his daughter in marriage, about the year 426; thus passing over the dynasties of Sudraca and Salivahana. The last dynasty, which he supposes to have lasted 500 years, our compiler has transposed, and brought down as low as the invasion of Timur, in the year 1398. This famous conqueror is generally called Timur-Lenk, by Hindus, in their Chronological lists, and also in an inscription near Bijigur.

This account of Salivahana's Dynasty at Dilli, and at so late a period, however strange, is not entirely groundless, Tieffenthaler, in his account of Subah Dilli, mentions two kings of that name, on



the authority of some Persian writers, whom he does not name. I saw the good old man, at Lucknow, in the year 1784. He was a man of austere manners, and incapable of deceit. His list of the kings, of the Tomára and Chohan tribes at Díllí, has certainly much affinity with those in the Ayin-Acheri (1): and the Kholassey-ul-Towáric and Ferishta's account of the Subahs of India, are most likely the sources, from which the good sather drew his information; but as these tracts are not at present within my reach, I cannot ascertain this point.

THE Bhats, or Bhattics, who live between Dilli and the Panjab; infift, that they are descended from a certain king, called Salivahana, who had three sons, Bhat, Maya, or Moye, and Thaimaz, or Thamaz, Moye settled at Pattyáleh, and either was a Thánovi or Thawoni, or had a son thus called. When Amir-Timur invaded India, he found, at Toglocpoor, to the N. W. of Dilli, a tribe called Soloun or Salwan, who were Thanovis or Manicheans; and these he ordered to be massacred, and their town to be burned (2). Salivahana is generally pronounced Ŝalwan and Salban in the west, and Niebuhr calls him. Shah-Lewan.

THE Manicheaus were Christians; and when FATHER MONSERRAT was at Dilli, at the Court of ACBAR, he was informed, that near that metropolis, and to the S. W. of it, and of course at Toglockabad, near the palace of PITHAURA, the usual residence of the ancient kings of that city, there were certain tombs, which were afferted to be those of of some ancient princes of Dilli, who were Christians, and lived a little before the invasion of the Musulmans. If these tombs really

<sup>(1)</sup> Vol. 2d. p. 62.

<sup>(2)</sup> Deguignes Hirty. of the Huas Vol. 5. p. 50.

existed, they did not belong to Hindus, who never erect any; they could hardly belong to Mufulmans, for it is fcarcely possible that they should be mistaken by Musulmans; since the tombs of those among them, who fell in battle, or otherwise died, in the beginning of their invasions, are looked upon as places of worship; and those entombed there are confidered, either as martyrs, or faints. In speaking of the tombs, and other monuments or events in India, FATHER MONSERRAT fays, with much candour, 'I was told fo in that country,' or 'I was affured of it by respectable persons; but whether it be so or not, I cannot further fay.' He explains himself in these terms, with regard to thirteen figures, in baffo relievo, upon the rocks of Gwalior, which he vifited in his way from Surat to Dilli, and which were supposed, by Christians in India, to represent our Saviour and his twelve disciples; one figure in the middle being a little higher than the reft. MONSERRAT fays, that they were fo much defaced, that no inference could be drawn from them, except their being thirteen in number (1). The foregoing particulars, concerning the Bhats, SALIVAHANA and his three fons, I obtained from an intelligent native, whom I fent to furvey the countries to the N. W. of Dilli. He was employed, on that fervice, from the year 1786 till 1796; and, in the year 1787, he was in the country of the Bhats. His instructions were, to inquire particularly into the geographical flate of these countries; and, whenever he could find an opportunity, to make inquiries also into their history and antiquities. At that time I knew very little about SALIVAHANA, and was still less interested in his history; and of course that ancient prince was not mentioned to him? and the knowledge which he obtained, concerning him, among the Bhats, was merely accidental, and by no means in consequence of any previous directions from mes

<sup>(1)</sup> P. 164.

THE Herely of the Manicheans spread all over the western parts of India, and into Ceylon, at a very early period, in confequence of violent persecutions in Persia, during which the followers of MANES fled, in great numbers, and at different times, into India: and it is even highly probable, that Manes remained a long time concealed in that country, in the fort of Arabion, on the eastern banks of the river Strangha, now called Chitrangh and Caggar. The Mefopotamia here mentioned by ARCHE-LAUS the Bishop, is the five Antarvedis, or Mesopotamias of the Panjab, commonly called the five Bheds or Bhedies; and STRABO, speaking of the Bhed, or Antarvedi, between the Chinab and the Jellam, fays, " in this Mefopotamia," and here the pronoun this has an obvious reference to the several Bheds or Mesopotamias of the Panjab. The river Strangha is called Saranges by ARRIAN; and the Chitrangh, flowing from the northern hills, passes to the westward of Sthanu far or Thanu-far, at some distance from which the water is absorbed by the sands; yet the vestiges of its ancient bed may be traced as far as Bacar on the Indus. The report of my native furveyor, concerning this river, is also confirmed by the report of GENERAL THOMAS, in his Memoirs. (1) There were Bhats, or Bhattis, in that country, long before the arrival of MANES; for PTOLEMY, in the beginning of the third century, takes notice, in that country, of two confiderable towns, obviously denominated after them. The first is Bata-nagra, or Bhat-nagara, the town of the Bhats. Bhatnere is the vulgar pronunciation of it; but the present town of Bhatnere is not the same with the Bhat-nagara of PTOLEMY; which was to the westward of the river Beyah, and is probably the town called Bhattyaleh. The other place noticed by PTOLEMY is Batan-cai-fara, a compound

<sup>(1)</sup> P. 164.

name; and in the true idiom of the Hindi language, Bhatlon-ki-fara, or Bhatton ca fara, the pool of the Bhats. Bhatton is the plural form from Bhat, and ki or ca the mark of the possessive case; and fara is a pool or lake. Bhatton ca-fara is according to the Idiom of the dialect about Dilli; but at Lahore, and in the Panjab, they would fay Bhattyan-da-fara; for as they fay there Bhatti for Bhat, the plural form is then Bhattyanh with a nafal n, and da or di are the ufual marks of the poffessive case with them. Bhattyan-da, is also a derivative form, implying as much as belonging to the Bhattis, and is synonymous with Bhattyaleh. From the fituation assigned to it by PTOLEMY, I suppose it to be the same place which is called Bhatlinda, to the N. N. E. of Bhat-nere. The Bhattis are shepherds, and various tribes of them are found in the Panjab; and they also inhabit the high grounds to the east of the Indus, from the fea to Uch. These tribes are called Ashambhetty in the Ayin-Acberi; but feveral well informed men, who had long refided in that country, fay, that the true prononciation is Acham-Bhatti; which implies the many troops, or bands, of the Bhattis; because they go by troops, selected from various tribes or families.

Manes gave himself out as the Christ, and had also twelve disciples; and, in the character of Christ, he became Salivahana in India. He had three disciples, exalted above the rest, and their names were Budda or Addas, Hermas or Hermias, and Thomas; which I conceive to be the same with Bhat, Maya or Moye, and Thaimaz or Thamaz, the supposed sons, or rather disciples, of Salivahana. In the seventh century, there were Christians at Serinda, or Ser-Hind, with a monastery; and two monks from that place, at the command of the Emperor Justinian, carried silk worms, or rather their eggs, to Constantinople.

THE compiler of the list, brought from Assam by the late DR. Wade, was well informed, with regard to the last blow given to this dynasty of Manicheans, by Amir-Timur, in the remains of a seeble tribe of them, at Toglock-poor. But it is much more reasonable, I think, to place the overthrow of that dynasty in the latter end of the twelfth century.

THERE was in Egypt a certain Seythianus, who had fludied, it feems, at Alexandria, and vifited the anchorets of Thebais. He went by fea to India, according to ST. EPIPHANIUS, and brought thence four books, containing the most extravagant notions: but he died, before he could preach his new doctrine, in the latter end of the fecond century. He was succeeded by his disciple, called TEREBINTHUS, who went into Palestine; but was obliged to fly to Persia, where he declared, that he was another BUDDA or BUDDHA, and like him born of a virgin, and brought up by angels, among certain mountains. Perhaps this new name was concealed in the old one TEREBINTHUS, from the Arabic Daru-Botam. Botam in Arabic, and Butam, or Buthem, in Chaldaic, fignify a Terebinth in general; but the largest and best fort is called, in the former language, Daru-Botam, which may possibly have some affinity with the Buddham-gach'h, or Buddham-Teru of the Ceylanefe and BAUD-DHAS in general, and which fignifies the tree of BUDDHA, for Gach'h in the spoken dialects, and Teru or Dru in Sanscrit, fignify a tree. For he faid, when he entered upon his mission, Se non jam TEREBINTHUM sed alium Buddam vocari, that he was no longer TEREBINTHUS, but ano. ther BUDDHA (1). The TEREBINTH is unknown in India, except beyond the Indus, where I am told that there are forests, of that fort which produces the Pistachium, or Pistachio, called Pista, in that country, and all over India.

<sup>(1)</sup> SALMASIUS de Homonymis, and Alphab. Tib. P. 370.

This name was probably given to him, in his infancy, by SCYTHIANUS, who was converfant with the notions of the Hindus. Having met with a strong opposition, from the priesthood in Persia, he was obliged to conceal himself in the house of a widow; where, falling from his bed, he broke his neck, and died. His writings fell into the hands of an adopted fon of the widow, who became a convert to his opinions. CEDRENUS and Suidas fay, that he was by birth a Brahmen: a good musician, and an excellent painter. He maintained, that he was the PARACLETE, and CHRIST; and the ignorant among the Christians, with his disciples, infifted, that he was Budda or Budd'HA, himself, regenerated; and he was afterwards regenerated, in the same manner with the Lamas, in the person of his disciple Buddas-Addas, or Ada-Manes, who, after many narrow escapes, was put to a most cruel death, by the king of Per-His followers, being alarmed, left the country; and many according to D'HERBELOT, retired to India. This is confirmed by the testimony of one of RENAUDOT's Mohammedan travellers, who went to Ceylon, in the ninth century; and fays, that in that island, there were many Jews, and Manicheans or Thanovians: for thus they were called in Perfia. PETER the Sicilian, who lived in the ninth century, fays, that a little before his time, a certain SERGIUS afferted, that TYCHICUS, the disciple of PAUL the apostle, had been regenerated in him; that he was the PARACLETE, and a bright star descended from heaven. He boafted, that he had preached the Gospel in various countries, and particularly, to the inhabitants of Laodikeia, near the country of the Cynachoritæ, in the East. The Gangetic provinces were known, at that time, in Perfia, under the name of the country of Canacor, its metropolis: and Laodikea is probably Lhahé-dac, or Lhah-dac as fulpeled by FATHER CASSIANO. This SERGIUS, a Manichean, appeared in the character of

CHRIST, and of the Paraclete; and was in India, and at Lha-dac, in the ninth century, towards the latter end of which there appeared another SALIVA-HANA, in the country about Dilli, (according to the lift brought from Affam, bythe late DR. WADE.) DEGUIGNES shows, that MANES propagated his doctrine in Tartary, where he was revered as a God. In the country of C'hegil, in Tartary, often mentioned in Perfian Romances with Khoten, he erected several temples, which he adorned with pictures. His skill, as a painter, is greatly extolled, by Persian and Arabian writers, as well as his famous collection of drawings, in a book called Erteng; and every collection of pictures is still thus called to this day. Many authors, both ancient and modern, have laboured to find out the etymology of his name MAN1; but it seems, that it was his original Hindu name, which fignifies a jewel in general, and is not uncommon, to this day, in compound names, as MANI-RAMA, NILA-MANI &c. It was the general opinion formerly, that MANES was a Hindu, and his father a Brahmen. He was also called Cubricus. Cubri in Hindi fignifies a hunchback; and Cubrica, in a derivative form, fignifies, either a man, who is crook-backed, or the fon of fuch a man. His father's name was PATEKIUS, and Páchaca, to this day, is a very common furname in India. CAROSSA, the name of his mother, is more obscure and uncommon. The Manicheans faid, that CHRIST was the primeval ferpent, who enlightened the minds of ADAM and EVE; the creator, the preserver, and the destroyer; the original soul, the preserver of the foul, and the fabricator of the instrument, with which the falvation of the foul is effected. He was born of the earth, and, for the redemption of mankind, suspended on every tree; for they saw him crucified on every tree, among its branches,

THE reader will eafily perceive fome deviations, from what I had advanced in my Essay on Anu-Gangam, which was already in the press, when I found, in perufing various tracts, feveral feattered paffages, which have induced me to make the prefent corrections and additions. I shall conclude this esfay, with a few remarks, on the various tribes, which ruled over the countries bordering upon the Indus, and the Vindhy. an mountains, according to the Pauránicas. The Ichwacavas, or children of Ichwacu, who ruled in the countries watered by the Indus; and this dynasty consisted of 24 generations. The Abhiras, or Shepherds, in the upper parts of the Indus, ten generations or reigns: then the Sacas, under ten kings, and probably kings of Perfia. Then came eight Yavana kings, or Greeks of Bactriana; and fourteen Tusharanas, or from Turan; and these belonged probably to the Parthian dynasty. Then came feven Garddabhinas, thirteen Morundas, or Burundas, as many Huna kings and eleven Maunas. Many Suppose the Morundas and Maunas to be dynasties of various branches of the Hunas; but they produce no authority, and it is of course a mere surmise. Be this as it may, they are acknowledged to be foreigners. The Garddabhinas are the descendants of GARDDABHA, Or BAHRAM-GUR, who began his reign in the year 421. The Hunas are the white Huns of COSMAS-INDICOPLEUSTES, and confequently the same with the Euthalites, or white Huns, who were settled in the Panjab, in the feventh century. The Vindhya-Sacti is a collateral dynasty, descended from Kosku-Perviz, and which began between the years 820 and 830. Their metropolis was Udaya-pura, and the Pauranicas have recorded the names of feven of them, who reigned all together go years. The Morunda of PTOLEMY are the fame with the Morunda; Burunda, or Burunta of the Puranas. They are only mentioned once, in the prophetick chapters; and are supposed, by some Pan-

dits, to be a tribe of Huns; but this is a mere furmise, founded on their being mentioned with that tribe. They were foreigners, and according to PTOLEMY, in the beginning of the third century, they were in poffession of the countries, lying between the Ganges and the river Cofa, or Coofy, including North-Behar and the province of Quide. It feems, that their possessions extended even to the fouth of the Ganges; for OPPIAN fays, that this river flowed through the country of the Maraunthes (1). The country which they possessed constituted afterwards what was called the country of Canoge, denominated also the kingdom of Bourou by the earlier Mufulman writers: and this appellation is perhaps only a corruption from Burunda. The Burundas were probably thus called, because they were originally from the country, called Porout by DE-GUIGNES, and which feems to have been the ancient name of Tibot, or Tibet, called also Barantal, in a derivative form, as Bengal from Beng. Its metropolis is called Lassa, Barantala and Putala, Putala, Bootan and Tibot feem to be derived from BUDDHA, called, in that country, BUT, PUT, BOT and POT. The natives of that country understand, by Bootan the kingdom of Laffa, and by Tibot the regions to the westward, toward the fource of the Ganges; and this was, it feems, the country of Porout; and the idea feems to be confirmed by DEGUIGNES (2). The kingdom of Tibot, according to Chinese writers, extended as far as the country of the Brahmans, in the year 589 (3); and in the year 649, the king of Tibet invaded the inland parts of India, that is to fay Benares, according to Deguienes. This account of these western dynasties, which ruled over the countries bordering upon the Indus, I shall resume,

Burnels, or Swinite of the

exect oses, in the prophetical chapters; and meruppe

<sup>(</sup>x) Oppiani Cynegetica, lib. 40. v. 164.

<sup>(</sup>a) Hist. des Huns, vol. 1, p. 59.

<sup>(3)</sup> Ditto p. 164.

in an effay, both geographical and historical, on such parts of India as were traversed by ALEXANDER. It is nearly finished, as well as the map intended to accompany it.

tribe infall, three diefe chief is really an incommittee of Visusup, in the THE doctrine of MANES could not fail of meeting with many admirers, in India, where he appeared in the character of Buddha, and of CHRIST, or SALIVAHANA. Transmigration was one of his tenets; and the rule of life and manners, of his disciples, was very severe and rigorous. They abstained from slesh, fish, eggs, wine, &c. and the ruler of every district, and president of their assemblies, was considered as CHRIST; and, about the fixth century, they had gained confiderable influence in the east. The Bhattis, in the west, are now Musulmans; but, as they are of a roving disposition, some tribes, at various periods, emigrated, and fettled in the adjacent countries, particularly to the eastward of the Ganges. Such an emigration took place of late years, and they fettled near Chandowssey, in Rohilcund: but, at a much more ancient and unknown period, they croffed the Ganges, and fettled in the district of Buddhaown, and there built a fort, called, after their supposed grand-fire, Côte-Salivahana, or Salbahan, the fort of Saliva-HANA, and which is mentioned in the Ayin-Acberi (1); and this happened, before they had embraced the religion of Islam: they emigrated probably on account of some religious persecution; as well as the other descendants or followers of SALIVAHANA, in the Purganah of Baifyawárá, about three days journey from Lucknow, and in the district of Khairabad.

<sup>(1)</sup> Vol. 2d Tucim Jumma p. 84.

THESE call themselves Vaisyas, or Baisyas, and also the Vaisyas of SALIVAHANA, Saca-Raja-vanfas and Saca-Raja-cumaras, that is to fay, the royal offspring of SACA or SALIVAHANA. All the members of this tribe infift, that their chief is really an incarnation of VISHNU, in the character of SACA or SALIVAHANA, regenerated, like the prefidents and chiefs of the Manicheans. This the chief, with affected modefty, feems rather unwilling to acknowledge; but in defpite of his affected endeavours to conceal his divine origin, peculiar circumstances will betray him, and which are related, in numerous and fulsome legends, current through the whole tribe, and which I shall pass over. There are also, in the Peninfula, Saca-vanfas or Saca-Raja-vanfas, which fignify, and are understood, in that country, to fignify, the offspring of SACA, or king SACA or SALIVAHANA; and in the east, and also in the west, the followers of a deity, or forme legislator and institutor, are often called his offspring (2). It is but lately that I have been acquainted with this fingular tribe of Rája-Cumáras, who do not differ from other Hindus of the same class, and have now lost every vestige of their ancient religion, except the name of their institutor.

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<sup>(2)</sup> Afiatic Refearches vol. 8 p. 507.

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provincing the modernoon of the house it is not PTOLEMY places Ujjayini about 255 Geographical miles from the mouth of the river Mahi, but the real distance is not above 200. The different places, mentioned by that author, between Ujjayini and the fea, stand thus. From the mouth of the Mahi, to its supposed communication with the Narmada, 60 G. M. to Tiágura 50: to Minnagara 50; to Zerogere, now Dhar or Asara-gur, 55: and to Ujjayini 40. The two last towns are erroneously placed by him, on the banks of the Narmadá, and I strongly suspect, that it is also the case with the two others. They are also placed on the left or fouthern bank of that river, which is not the case, unless perhaps with regard to Tiágura, which might have been situated to the fouth, either of the Narmada, or some other river mistaken for the Narmadá. Tiagur is certainly a true Hindí denomination, and there are feveral places thus called, in the more fouthern parts of India; yet in this instance, I suspect that it is a mistake, for Paya-gurra, or Pawa-gur, to the fouth of the river D'had'hara, mistaken by PTOLEMY for the Narmadá; because these places were said to be in the tiram of the last river. Tiram implies only the country bordering upon the fea, or a river: but it was mifunderstood by travellers, and supposed by them to imply the banks of the Narmadá. Thus Payagurra was faid to be a the tiram of the Narmada; which is very true; and to the eastward of a river, that runs by it. The D'had'hara river runs afterwards very near to the Mahi, in the vicinity of Brodrá; and there might have been for-

merly a communication, either natural or artificial, between thele two rivers; and the nature of the foil, with the diffance, certainly countenances the possibility of such a communication. The town of Nafica, placed by PTOLEMY on the Narmadá, I strongly sufpect to be out of its place, and to have been originally meant for Nasica, or Nassuck, near the source of the Godaveri, and to the N. E. of Bombay. It is also my opinion, that the Sardonyx mountains are misplaced by PTOLEMY: and indeed such is the construction of his map in that part, that there is no room for them in their natural place; and I take them to be those situated to the east of Baroche, between the Narmadá and the river Mahí, where to this day they dig for precious stones. In consequence of this erroneous construction, the rivers Paddar, Sabhra-matí, and Mahi are confounded, and the whole peninfula of Gujarát disappears. The reason I conceive to be, that the shores were not frequented, on account of the vicious and untractable disposition of the natives. In the fourth century, mention is made of Diu, under the denomination of Dibu or Divu (1): its inhabitants were called Divæi, Dibeni and Diveni; and it appears that this de nomination extended to the whole peninfula. In the same manner, the Mufulmans gave formerly the name of Soma-natha, to Gujarát, from a famous place of worship of that name.

It feems, that the inhabitants of that country had, by their piracies, greatly offended the Romans; for we read, that they were forced to fen d an Embassy to Constantinople, and give hostages for their future good behaviour, and the famous Theophilus was one of them. When

<sup>(1)</sup> Philostorgius p. 487. Ammian. Marcellin, lib 220. Diu is called Dib in the Ayin-Acberi Vol. 2d. p. 94.

we read in STRABO, that MENANDER conquered not only Patalene, but also the country of Sigertis, and the kingdom of Tessariostus, there is a strong presumption, that these countries were contiguous to each other. Pattalene is well known; and Sigertis is from the Hindi Scher-des, the country of Scher, or Schr, mentioned in the Ayin-Acberi, where it is called Sceree, and its Roja Sehris, and by others Sihar (1). Abul-Fazil says, that it was bounded to the east by Cashmir (read Ajmir); to the west by the river Mehran or Indus. It had the sea to the south, and to the north the mountains, that is to say the black mountains of Uch'h (2).

I have met lately with respectable and well informed men (3), from that country, who declared to me, that the country to the west of the Indus, between the river and the mountains, is called by the natives Lehr and Lehereh, and its inhabitants Leherái or Lehrái. In the same manner, the country to the eastward of the Indus, is called Sehr, Sehereh; and its inhabitants Sehrái or Seherái. These two denominations might be written Lehráhi and Sehráhi; but the letter H is not to be sounded, and serves only to separate the two vowels.

THE country of Lehreh or Lehereh, is called Nedheh or Nedeheh by EBN-HAUCAL (4), and Nodha by EL-EDRISSI. The town of Lehrwun near Hydrabad, (and both cities are to the west of the Indus.) derives its name from that same source; but it is generally called Nehr-wun or

<sup>(1)</sup> Ayin-Acberi Vol. the 2d. p. 146 and 149.

<sup>( 2 )</sup> Do. p. 145.

<sup>(3)</sup> One of them was feveral years in the service of Gholam Mohammed Abass, ruler of Sind. Abassi signifies a descendant of Abbas, not an Abyssinian.

<sup>( 4 )</sup> See Major Oufeley's translation.

Nehrun, Nirun by EL EDRISSI, and Birun by Persian authors, because in that language there is very little difference between the letters B and N. The whole country of Nedheh, or Nehrwun, from its capital in former times, is called Nehrwan or Behrwan, in the Ayin-Acberi; but it is omitted in the English translation, owing probably to some defect in the manuscripts in that part. Be this as it may, where we read Pergunnahs separate in the printed copy (4), there is in the original Nehrwun-na-Chand, the districts of Nehrwun, and Chand. The latter is called Chandu of Bacar by ABUL-FAZIL in another place ( 5 ), and Sandur by EL-EDRISSI. The famous port of Lehri or Lehrahi-bunder is thus called, because it is in the country of Lehreh; whilst another port, on the eastern branch, is denominated, from a fimilar circumstance, Schri, or Sehrahi-bunder. It is called Seuheri by OTTER, and is situated to the westward of an arm of the Indus, which forms there a spacious lake, in some places seven or eight miles broad, and is noticed by ALEXANDER'S historians. It is well known to modern travellers, and pilgrims; and Sehri-bunder at present is always called Bustah bunder. This saltwater lake or bay, (for its entrance is pretty broad,) was by the Greeks called Saronis (6), and Eirinos, probably for Seirinos, from Sehrwun or Sehrun in a derivative form, as Lehrun from Lehr or Lehreh. It is called Eirinos by ARRIAN in his Periplus of the Erythrean Sea; and he fays that it is hardly discernible at sea; and this is the reason, why it is not noticed by modern navigators: but it is well known to travellers, who in general are pilgrims, going to worship at Hinglaz, near Cape Moran, the

See Major Oulewy's resultations and

<sup>(4)</sup> Ayin-Acberi vol. 2. Tukicem Jumma p. 97, 100 and 103.

<sup>(5)</sup> Vol. 2. p. 142. Indicated at ion seeded to resince to a selling a fluid. And

<sup>(6)</sup> Plutarch. de flum.

Hindu name of which is Mudán, wherein the letter D has a mixt found between D and R, and fignifies a head land (1). The entrance is faid to be about two cos broad, or three miles and a half. From Buftah bunder, to Abád, in a N. W. direction, they reckon twelve cos. It is upon the western bank of the main branch of the Indus, and is called Hábáth in the history of Mahmood, the son of Sebesteghin, and errone ously Ebját by Abul-Fede, who calls it also Mow, which in Hindi implies a mart, or place remarkable for some manufactures, or peculiar traffick. This lake or bay communicates with the main branch of the Indus, called Rishad and Dishad, through an arm of the river; and the point of separation is near a place called Pochyari, supposed to be either 16, or 20 miles from the sea.

This lake communicates with the sea, through two openings, or mouths: the largest of which is close to Bustah-bunder, and the other to the east is very small. East of it, is a small place called Lac-put-bunder in Cachina, which owes its origin to king Lac-pati, the grand sather of the present Raja of Cachina. These two openings answer to two inlets, noticed by Major Rennell, under the names of Warrel, and Puckar, for Pokyari; thus called from the place of that name, situated where it branches out. The appellation of Warrel is unknown to the natives consulted by me, and they suppose, that it might have been occasionally so called, from being resorted to by the pirates of the Warrel tribe.

<sup>(1)</sup> A legendary tale has been adapted to it, as usual; which is that the head of GANE-sA fell there. Hence it is called Ganesaca-muda, the head, or scull of GANESA; and a few miles inland, is a place of worship, called Muda-cata GANESA, where it is supposed to have fallen.

PILGRIMS, after having worthipped at Dwarea, between Bate and point Jigat, crofs the gulf of Cachiha, land at a place called Mafca-Mudai, in a small island, at the mouth of a river or creek. The mound tains end at a confiderable diffance, and in the N. E. To the westward is a point of land, which I take to be that called Maffada in old maps; and Mafca feems to be the place called Affarpoor in modern maps. From thence, to that large branch of the Indus; called Banyani, or Aurungabunder, they reckon three long days march, upon a high fandy beach; and the road, in general, is feveral miles from the fea. Two fhort days from Masca-Mudai is a small river, supposed by some to be an arm of the Indus, which branches out above Schwan. They then proceed to Lacpat-bunder, and cross a small arm of the sea; and then, in their way to Bustah, they cross in a boat the mouth of the salt water lake, and proceed to Gheda or Ghainda, about a mile from the fea, and on the eastern bank of the Bányani, which they consider as the main stream of the Indus, called Meran in the dialect of Cach'ha. Cheda or Ghainda, may be pronounced Gherá and Ghainrá. It is a facred spot, but there. is no place of worship, dedicated to Cotiswara-Maha-Deva, or with ten millions of Phalli. The Musulmans worship there the tomb of a faint of their own; and from this place, the branch of the Indus is also called Cherá or Ghorá. Then they go to Shah-bunder, either by the way of Abad, or Pokyari: and as Shah bunder is now the feat of government, Hindu pilgrims in general call it Thatha.

THEY all infift, that, between Masca-Mudai and Ghainda, there are only three creeks, inlets or rivers; but, as they travelled several miles from the sea, they acknowledge, that there may be a sew more, but

have fallen.

which do not go far inland. The road is upon a flat ridge, several miles broad in some places, and considerably higher than the country; and a pilgrim told me, that he had been informed, that there was an arm of the Indus running parallel to it, but that he did not see it. The whole ridge was probably thrown up by the sea, and is covered with a shrub called Luni in that country, Jhan on the banks of the Ganges, and Ghezz in Persian, at least in that dialect of it, which is used about Candahar and Ghazni. Hence it is probable, that the eastern branch of the Indus is called by PTOLEMY Loni-bare from that circumstance. It is three or four seet high, and delights in very sandy and low places. Its stalk is very crooked, but its branches, and leaves, are somewhat like those of the cypress (1).

The various branches of the Indus, according to the best information I could procure, stand thus. First, the small river before mentioned, but which is not reckoned as a mouth of the Indus: it is called Afá, from a place of worship, or rather consecrated spot, of that name. The second, called Lac-put, or Pokyari, and Puckar, in a map by Major Rennell. The third, Bustah-bunder, answering to Warrel. The fourth, Bányáni, Ghaindá or Goráh. Kaar is the fish: then follows the Jumná, which is the Hijamány of Major Rennell. The seventh is Rishád, or Dishád, called also Divel. The eighth is the Jowá, written Juhoo in the maps, with a little village to the west, called Nowa-bunder. The information which I was able to procure does not go beyond the Jowá, except concerning a small branch in the track of the pilgrims, within a sew miles of Cranchi or Cráchi, and which, they say, salls either into that harbour, or into the sea very near it. According to Father Monser-

(a) See the Nation Gregolpher, p. 60.

<sup>(1)</sup> It is the Tamarix Indica Kan.

RAT, who wrote above 200 years ago, it falls into the harbour (1). Through this branch, not now navigable, Nearchus's fleet failed. Its entrance was obstructed by a bar, on which the sea broke with violence. They cut through it, and entered the harbour of Corestis, which is a corruption from Cáráchi, Cráchi or Cranchi. It is more generally called Rámbágh. The town and fort are several miles inland, and the place is called the fort of RAM by FRAZER, in his history of NADIR-SHAH. This account of the mouths of the Indus, has a great agreement with the early maps by MAJOR RENNELL, but none with his last.

When the Greeks failed within fight of the land, they coasted along the Delta, as far as the point of land before mentioned; and then crossed the gulf of Cach'ha, or Cantha, thus called from a famous town of that name, still existing. This head land is particularly noticed by the author of the Periplus (2). The Musulmans, bolder, crossed from the western mouth of the Indus, to an island called Avicama, which is a corruption for Auca-mandal, a district near Dwáracá. (3).

The country of Schreh extends, toward the east, no further than Lacput-bunder, on the sea shore; and there begins the country, called formerly, in the Purân'as, Su-râshtra or Surâsht, but now Gurjjara-Râshtra,
or the kindom of the Gurjjaras. This compound is pronounced Gurjjar-Râshtra, Gurjja-Râshtra, Gârja-rasht, and more generally Guj-râsht
and Guj-rât'. This is the kingdom of Tessariostus, conquered by MenanDer, according to Strabo. Renaudor's two Musulman travellers,

my anderes of the il (1)

<sup>(</sup>t) The original M. S. S. of Monserrat's travels is in my possession. He speaks here from report only, and he accompained the Emperor Acras in his expedition to Cabul.

<sup>(2)</sup> Arrian. Periplus p. 23.

<sup>(3)</sup> See the Nubian Geographer, p. 60.

in the ninth century, take notice of the country of Haraz or Geraz. called in the original M. S. S. Giourz, or Gourz; for they used to write formerly Giuzerat for Guzerat. His country was fituated upon a promontory, or in a Peninfula, and there were many camels, and other cattle. He was a great enemy to the Arabs, and no prince had a greater aversion to the religion of MUHAMMED, and he was at that time at war with the Bala-Raya. The Hindi name of the Peninfula is Gurjara, and Gurjar-Rashtra fignifies the kingdom of Gurjara. The whole country, from the Indus to Daman, is called Su-Rasht'ra, its inhabitants Su-Rashtrán, from which PTOLEMY has made Syrastrene, which is now pronounced Soret and Surát. Its metropolis, at a remote period, was the ancient city of Tija in Cach'h, noticed in MAJOR-RENNELL's map. Tradition fays, that it was founded by an ancient king, called TEJA or TEJA-CARNA. There were three brothers descended from Icshwacu. PURU, BUJ, or BOJ, and TEJA: the two first are noticed in the Puran'as, in the prophetic chapters, where Puru is generally called PURU-CACH'HA, and the other BUJA-CACH'HA.

THE Rajas of Cach'ha boast of their independence; and pretend that, since the beginning of the world, they have never been conquered, and that once they ruled all over Gujja-rasht. They have forgot the conquest of their country by Menander, which is well attested; for unquestionable vestiges of it remained in the second century, such as temples, alters, fortified camps, and very large wells of masonry, with many coins of Menander and Apollodotus; and these monuments were found as far south as Baroach. (1) Plutarch (2) says, that the Hyphasis,

<sup>(1)</sup> Peripl. Maris Erythræi, p. 24 and 27.

<sup>(2)</sup> Plutarch. de flum. v. Hyphafis.

or Beyah falls into this lake or bay, and thence into the fea. PHILOSTRA-TUS, in his life of APOLLONIUS, afferts, that this river falls into the fea: through a distinct mouth. This certainly could never be the case according to our ideas; for there is an uninterrupted range of mountains, reaching from Dilli and Agra to Bacar on the Indus. But it might be otherwise according to the fanciful notions of the Hindus. We have a fimilar inflance in the Gangetic provinces, with Fegard to the Jumna and Sarefvati; which fall into the Ganges at Allahabad, and the three rivers flow conjointly, but without mixing their waters, as far as Tribeni, near Nyaferah, above Hoogly; where they divide again; and the Jumna, called in Bengal Jubuna, goes to the left, and falls into the fea, in the bay or river of Roymungul. The waters of each river may eafily be known; for those of the Jumná are of an azure colour; those of the Sarafvatí white; whilst those of the Gangá have a muddy, or yellowish tinge. These appearances, which are owing to various circumstances, such as the depth of the river in some places, its shallowness in others, the reflection of the clouds, or of the fky, are thus accounted for by Hindus in their own way. Pattalé, Pattalené, called also Pathalia, seems to derive its name from a famous place of worship, dedicated to a form of the deity with the title of Pathá, which, in Hindi, fignifies youthful: and from Pathá comes Pathála, as Bengálá from Benga. It is one day's march to the fouth of That'ha, and two to the north of Shah-bunder; and not far from the western bank of the Indus. The Mufulmans took poffession of it, about five or fix hundred years ago, according to tradition; and there lies entombed one of their faints, called Peer-Patha, or the youthful faint. This place is of course resorted to, both by Musulmans and Hindus; but the latter pay their vows only. at a distance, to their own deity. It is on the file of Brabminabad,

called also Manhawar (and Mahaura by Persian authors). Bacar is also called Mánháwar: but its true name is Bánhawár, the Binnagara of PTOLEMY, and the same I believe, which is called Panaoura by STE-PHANUS of Byzantium, and Báhaurá or Bahur by Persian authors (1); fituated in lat. 27° 47', as the lower Mansurais in lat. 24° o- North. It was afterward called Manfura, which is also the name of another city, lower down the Indus, one day's march from Manhawar, and three from Shah-bunder; the real and original town of Daibul or Devel, which last was three days from the fea. The lower Manfoura is now Thathá.

II.

is afferted in India, that the Mahratas are foreigners; and this they themselves acknowledge. The Ranas of Udaya-pura, and their tribe, who are related to the Mahratas, boast of it; and say, that they are descended from NUSHIRVAN. The Parsis in India fix the time of their emigration in the time of ABU-BECR, who reigned only two years, in 632 and 633. That feveral emigrations from Perfia took place, at different periods, in consequence of the fanatic zeal of the Muslemans, and their perfecuting spirit, cannot be doubted; but the emigration of the children of Nushirvan is the most ancient. Some of these emigrants retained their ancient religion, and are called Parfis; others turned Hindus, and are called Ranas and Mahratas. Some afterwards adopted the religion of MUHAMMED, and are called in the Peninfula Nevetchs, new men or converts. Though they all agree, that they came from

<sup>(1)</sup> See ABUL FEDA, in the first vol. of Thevenot's collection. &c.

Perfia, and are the descendants of Nushinvan, yet there are various accounts, concerning the time of their emigration, the manner in which it was effected, and the number of the emigrants. There were probably feveral emigrations; the memory of which has been preferved only by tradition; and there have been two powerful princes of Perfia, called NUSHIRVAN; but we are not told, which of them is meant in these As they all agree, that these emigrations are posterior to the time of MUHAMMED, we may infer that they are descendants of KHOSRU-PERVIZ, who was also sirnamed Nushirvan. This last was the grandson of the great or first Nushirvan; and, in either case, they are certainly the descendants of the latter also: but in my opinion, the first emigrants were the fons of KHOSRU-PERVIZ, and the great grand fons of the great Nushirvan. Abul-Fazil is the first Persian author, who took notice of these emigrations, on the authority. it feems, of traditions, and perhaps written records, in the family of the princes of Udaya-pur. There are also in the Peninsula written accounts, none of which I have yet seen; but I have conversed with several well informed men, and of great respectability, who had perused them. They were also seen by the late Nawab Ali-IBRAHIM-KHAN, first magistrate of Benares; and who, about 25 years ago, wrote a short Persian account on that subject, which is now in the possession of his fon, who lent it to me. This illustrious descent of the RANA of Udaya-pur is noticed by DR. HUNTER (1), and the origin of the Peshwas from these princes, and of course from Nushirvan, is amply detailed by BERNOULLI in his third volume. The descent of the Parfis in India, from the same source, is related by MANDELSLO and other travellers

<sup>(1)</sup> Afiat. Res. v. 6, p. 8.

'THE origin of the Mahratas is also noticed in the Scanda-purana, in the section of the Sabyadri, or mountains of Sahya, for thus the ghats are denominated in Sanscrit, and Sahyan or Sakyan, on the Malabar Coast. Unfortunately, the second part of this section, in which the origin of the Máhrátás was inferted, is so very scarce, that it is supposed to have entirely disappeared, and to liave been destroyed by them; as the account, given of their origin, was by no means a very honourable one. With the destruction of this part only of the Hindu facred books, they can fairly be taxed; and the Hindus are, on the contrary, under the greatest obligations to them, for the preservation of the rest. Whereever the Máhrátás go, they buy all Sanscrit books indiscriminately, and give any price for them; fo much fo, as to render them very scarce in every country, but their own. Be this as it may, it is affirmed, that they have destroyed the second part of this section, the contents of which are yet by no means forgotten. There are still living many persons; both respectable and well informed, who well remember having read that unlucky paragraph. For this reason, they are branded with the appellation of Mlech'has or barbarians, by those who have suffered from their tyrannical and cruel behaviour; which, for a long time past, is at least equal to that of any foreign tribe, that ever invaded India, with regard to extortions, plunder, and other acts of cruelty.

THREE different dates are given of this emigration; the first in the time of Abu-Becr, in the years 631 and 632; the second in the year 651, after the defeat and death of Yezdejird; and the last, when the descendants of Abbas, the uncle of Muhammed, began to prevail in Persia, about the year 749: and these are probably three different emigrations. The last has been adopted by the late Nawab Ali
1BRAHIM-KHAN. According to some, a prince of the royal fa-

mily, in the province of Lar or Larislan, embarked with 18000 of his subjects, and landed, at three different places, near Surat, and in the gulf of Cambát. This prince was a son of Nushirvan; and the emigration took place in consequence of a violent persecution from Abu-Beck.

ANOTHER account states, that they were all secretly conveyed on board ships, and thus committed to the sea without pilots; and they all landed safely near Surat, where they were kindly received by the king of that country. (1) These various accounts are current in the western parts of India; and there is probably some truth in every one of them.

THERE are some inaccuracies in these accounts; first, ABU-BECR'S conquests never reached beyond Chaldea; and of course, he could not, by any means, be the cause of this emigration, during a short reign of two years. Besides, 18,000 men are certainly too great a number to come by sea; especially as it is added, that they had only seven ships. The Hindu accounts mention only eighteen individuals, including a camel, from whom a tribe of Mahratás is descended. These seventeen men were slung secretly into the sea, and were drowned. Their corpses were wasted to the shores of India, and there brought to life again, some by Parasu-Rama, and others by a magician: for the Hindus could not handle this historical event, without new modelling it, as usual, after their own way. The first emigration is afferted, in general, to have happened in the beginning of the seventeen persons were the sons of

<sup>(1)</sup> History of the East Indies, by CAPT. COPE, p. 244.

<sup>- (2)</sup> See Mandelslo and others.

RHOSRU-PERVIZ, called also Nushirvan, who were conveyed away privately to India, by order of their brother Shirovyeh; and having disappeared, were said, as usual in the east, to have been put to death by him. Shirovyeh has been already acquitted of the murder of his sather, by the venerable and learned Ebn-Batrick, Melchite, or orthodox Patriarch of Alexandria, who was both a divine and a learned Physician. It is acknowledged by the learned, that we cannot read too cautiously the accounts of the wars, between the Emperors of Constantinople and the kings of Persia, either by Persian or Greek historians, but more particularly the latter. Ebn-Batrick says, that Khosru-Perviz died of the plague, in confinement; and was soon followed by Shirovyeh, his son, who died also of the plague. That the latter was a good and just prince; and that, being a Christian, he put to death his brothers, who were heathens.

The history of Khosru-Perviz has been equally misrepresented: he was certainly a great man, but of ungovernable temper; and he has been also acquitted of the murder of his own father, by respectable authors. He was either the son-in-law, or the adopted son of the Emperor Maurice, and was much affected, when he heard, that the Emperor had been basely murdered by the infamous Phocas. He resolved to revenge his death, and place Maurice's son, the lawful heir and successfor, upon the throne; and for this purpose, he waged a long and bloody war. Heraclius, who succeeded Phocas, tried every means to make peace with Khosru-Perviz; but, the only answer he received, was "renounce the throne in favour of the lawful heir." Instead of which he is made to say "renounce thy crucified God." This I conceive to be impossible; as his only view, in waging war, was to replace upon the

throne a Christian. Whether he was sincere or not, is not now the question: this was at least his ostensible pretext. He never forced the Christians, in his own dominions, to renounce Christ; but he wanted them all to conform to the opinions of Nestorius, which he favoured greatly. In short, he has been supposed to have been a Christian; and certainly he had once an idea of becoming a convert: for he consulted the most respectable persons about him on that subject; but they disapproved of it, for this single reason it seems, that the Christians in general were a persidious and faithless race. When he took Jerusalem, instead of desiling and destroying the pale of the true Cross, he sent it to his beloved Queen, who was a Christian, under the care of the venerable Zacharias, patriarch of Jerusalem. Neither can I believe, that he fold 90,000 Christians to the Jews; and that the latter bought them for no other purpose, but to put them to death next day in cold blood.

KHOSRU, having taken HERACLIUS prisoner, made peace with him, and agreed to release him, on his paying a certain sum of money. HERACLIUS seigned, that he could not raise that sum, unless he was allowed to go and borrow it. Khosru set him at liberty, on his pledging his word that he would return: but Heraclius never did, and employed that money in raising another army. All those calumnies were invented by Heraclius and his adherents, in order to exasperate his own subjects, against Khosru and the Persians.

But let us return to the Mahratas: According to the Pauranics; Parasu-Rama, having extirpated the Cfhettris, and filled the earth with blood, wanted to perform a facrifice; but could find no Brahmen to affift, on account of his being defiled with the effusion of formuch human blood. As he was standing on the summit of the moun-

thores below. These were the corpses of so many Mlech'chas, who had been slung into the sea, by their enemies, in distant countries in the west. They had been wasted by the winds, and were then in a high slate of putrefaction. Rama recalled them to life, imparted knowledge to them, and conferred on them the Brahmenical ordination, and then bid them perform the sacrifice. From these fourteen dead men is descended the Cucanastha tribe of Máhrátas; thus called, because, since that time, they have always staid and remained in the Cucan.

THERE were three other individuals, whose corpses were similarly stranded, more to the northward, toward the gulf of Cambay; and these were brought to life again by a magician, and from them are descended three tribes, one of which is the Chitpáwana; and the Ranás of Udaya-bur, with the Peshwah's family, belong to it. The names of the two other tribes I do not recollect. These are probably the seventeen sons of Nushirvan, supposed to have been put to death by their brother Shirovyeh, and the times coincide within two or three years.

According to the Pauranies, there was also the dead body of a camel, belonging to the fourteen brothers: but of him Parasu-Rama took no notice. There was a magician, who wanted to perform certain magical rites, but could find no Bráhmen, that would affist at these nesarious ceremonies. He took some of the ribs of the camel, pronounced some powerful spells, and made men of them, and moreover conferred on them the sacerdotal cord. From them is descended the Cárárá, another Máhrátá tribe in the Deccan.

THE Pefliwa's family, of the Chitpawana, with very much to be confidered as belonging to the Cucanaflha tribe, fince they refide also in Cucanaflha We read in the Ayin-Acberi, that the ancestor of the Rana family, and a descendant of Nushirvan, was styled a Brahmen, not because he was really so, but because he had been brought up by a Brahmen (1).

This ancestor of the Ranas, meeting with no encouragement in the western parts of India, went into Berar, and at length became chief of Parnaleh. In the year of CHRIST 793, according to ABUL-FAZIL, that city was plundered, and many of the inhabitants perished. During the confusion, PATTA, called by some BANNA and RANA, a descendant of our adventurer, and then an infant, was carried by his mother to the country of Meywar, and received protection from king MANDALICA of the Bhil tribe. He was raifed by degrees to the confidence of the king; and, after his death, he murdered the four fons of his benefactor, and usurped the throne (2). He was the founder of the dynasty called in the Puranas Vindhya-Sacti, the glory and might of the Vindhyan hills. It confilled of nine kings, who reigned altogether ninety years, during the greatest part of the ninth, and in the beginning of the tenth centuries (3). There are still some of that family in Berar, who are also called Ranas, fuch as the Zemindars of Mahaur (4).

It is the opinion of the Nawab ALI-IBRAHIM-KHAN; and of the Mufulmans in general in India, that the children of Nushinvan were driven out of Persia by the Abbasis, whose dynasty began in the year 749; missed probably by some latter emigration of natives from Persia.

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<sup>(1)</sup> Ayin-Acberi, vol. 2. p. 99. (2) Ajin-Alberi, vol. 2. p. 98.

<sup>(3)</sup> Puranus, prophetick chapters, and office additional and the same of the sa

<sup>(4)</sup> Ayin-Acberi, vol. 2. p. 72.

this account it is generally added, that the Abbasis sent them away privately in different ships; but none of the posterity of Nushirvan remained at that time. Firuz, the son of the last Yezdegird, after the death of his father in 651, sled to Kboten, where he was kindly received; and in 662 was acknowledged king of Persia, by Kaotson's Emperor of China, who made him captain of his body guard. Firuz died soon after, and his son Naniche was appointed to succeed him in the throne of Persia. In 683, Naniche went toward the frontiers of that country, with an army, to try his fortune; but meeting with no success, he returned to China, between the years 710 and 712, and died at Sigan-fu. (4)

The Mahratas are called Maha-rashtras in Sanscrit: Maha is great and illustrious, and Rashtra, synonymous with Raja-putra, implies their royal descent; and their name also indicates, that they were acknowledged to belong to the second class on their arrival in India, and of course that they were not Brahmens. When they came into India, there was a tribe of Rashtras or Raja-putras, called Rators in the vulgar dialects, and Oratura by Pliny: there was also another tribe, called Su-Rashtra, or the illustrious royal offspring. These are called Syrastra, and their country Syrastrene; by Ptolemy and others; and it is called, in the spoken dialects, Surat and Sorat. When our new adventurers had obtained power and influence, they assumed the superior title of Maha-Rashtras; and by striking out such letters as become useless, when brought to the standard of the spoken dialects, we have Maha-rata, Mahrata and sometimes Mahrator, as Rator from Rashtra. Thus we have Surat from Surashtra, and Gujarat from Gurjar-Rashtra.

<sup>4.</sup> Deguignes, Hift. des Huns V. r. p. 57.

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variety in mattern dispose but reversed they policiely of thought sweeting.

## BY SAMUEL DAVIS, ESQ.

ALBUMAZAR, an Arabian astronomer, who lived at Balkh, informs us, that "the Hindus reckoned from the flood to the Hijra 720, 634, 442, 715 days, or 3,725 years."

THE aftronomical rules of BRAHMAGUPTA, who lived in the 7th century, were in use in Albumazar's time (see Asiat. Researches vol. 2. p. 239) and the term of Brahma's employment in the creation, 17,064,000 years, to be deducted from the years expired of the Calpa, is a correction, which has subsequently been introduced into the Hindu Astronomy.

To find, therefore, the number of days expired from the creation, or rather, of days expired of the Calpa, to the beginning of the last yuga, we must, instead of proceeding as in vol. 2. p. 273 Asiatick Researches, proceed as follows:

Years expired of the Calpa to the end of the Satya

yuga; -	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	object manner	Zio in		1,970,784,000
Treta yuga,	Transmisson of		a -yel	+	1,296,000
Dwapar,	inbutto V	Part Carrie	- 100-	400	864,000
morting the ser				150.	

To the Cali-yuga, - - 1,972,944,000

As the years of a Calpa, to the days of a Calpa, so the above number of years, to the corresponding days.

IT appears from BRAHMAGUPTA's treatife, which is still extant, and likewife from the Siddhanta Sirómani, the work of a later author, that

the number of Savan, or natural days, contained in a Calpa, was 1,577,916,450,000 instead of 1,577,917,828,000, as given in the Súrya-Siddhánta.

In other words, the folar fidereal year, instead of containing 365 15 31 31 24", was estimated to contain 365, 15 30 19 30"; and, therefore, we must multiply 1,577,916,450,000, by 1,972,944,000, and divide by 432,000,000; the quotient will be found to agree exactly with the number of days mentioned by Albumazar; that is, it will be 720,634,442,715, without any fraction.

It is therefore probable, that the true reading of the passage quoted should be, "the Hindus reckon, from the creation to the Cali-yuga (or the flood) 720,634,442,715 days; and from the flood to the Hejra, 3725 years."

Perron's conclusion, with respect to the late introduction of the yugas, which are the component parts of the Calpa, into the Hindu astronomy, is unfounded; and that the invention of those periods, and the application of them to computations, by the Hindus, must be referred to an antiquity which has not yet been ascertained.



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# ACCOUNT OF THE JAINS,

COLLECTED FROM A PRIEST OF THIS SECT;

AT MUDGERI:

TRANSLATED BY CAVELLY BORIA, BRAHMEN, FOR

Major C. Mackenzie.\*

IN former times, the Jains being without a Guru, or spiritual director, to guide them in a good course of life, Vrishabhanátha Tírthacart was incarnate in this terrestrial world; and reformed or corrected their errors; and made laws, purposely designed for this sect: he took upon himself the office of Gyru of the Jains. At this time, there existed sive sects, viz. 1 Sanc'hya, 2 Saugata, 3 Chárváca. 4 Yóga, 5 Mímánsá.

This Guru composed several books, on the laws, customs, ceremonies and regulations of the Jain religion, from his profound knowledge, for the use and benefit of mankind.

THE fon of this Guru, who was called BHARATA CHACRAVARTÍ, conquered the terrestrial world, with all its islands; and ruled, for a confiderable time, as chief fovereign, above all other inferior princes.

<sup>\*</sup> The language of this translation has been corrected; and some of the passages transposed: but without altering the sense. The orthography of Indian words has been, in general, adapted to the system of Sir William Jones; which is usually followed in the Asiatick Researches: but, in instances of modern names of places and persons, where the original term has not been known to me, I have left the translator's orthography untouched. H. T. C.

<sup>+</sup> In Pracrit, TITT HAYAR; in Canara, TIRT HURU.

BEFORE the death of the Guru, as he had placed his fon BHARATA-CHACRAVARTÍ in the government of the state, he appointed one of his disciples, in his own room, to guide and instruct the people of this religion, in following his instructions and laws; he gave him the sacred name of AJITA,\* and departed from this world.

Since that period, the following principal Tirt'hacars, or pontiffs, were incarnate in this world at different times.

1 VRISHABHANAT'HA, 2 AJITA, 3 SAMBHAVA, 4 ABHINANDANA, 5 SUMATI, 6 PADMAPRABHA, 7 SUPARSWA, 8 CHANDRAPRABHA, 9 PUSHPA-DANTA, 10 SÍTALA, 11 SREYANSA, 12 VASUPÚJYA, 13 VIMALA, 14 ANANTA, 15 D'HARMA, 16 SANTI, 17 CUNT'HU, 18 ARA, 19 MALLI, 20 MUNISUVRATA, 21 NAMI, 22 NEMI, 23 PARSWA, 24 VARD'HAMANA.

THESE were the first Gurus, or pontiffs of this religion, who, as twenty-sour incarnations of their first Guru, appeared in the beginning of the present age, or Caliyuga.

UP to the beginning of the Caliyuga, the world was ruled, at twelve different times, by twelve Nara Chacravartis, or monarchs, among whom are 1 BHARATA, 2 SAGARA, 3 MAG'HAVAN, 4 SANATCUMARA, 5 SANTI. 6 CUNT'HU, 7 ARASUBHÚMA, † 8 JAYASENA, 9 HARISHENA, 10 BRAHMEDATTA. These sovereigns of the world are said to have been Jains.

BESIDES these, nine Ard'hachacravartis ruled at different times;

The June at Sravana Bélligéla say, that Ajira did not appear as Guru, until many years after the death of the first Tiriburu. C. M.

<sup>†</sup> Shouldbe 7 Ara, 8 Subhuma, 9 Padma, 10 Harishena, 11 Jaya, 12 Brahme-Datta, H. T. C.

their names are 1 Aswagriva 2 Taraga, 3 Meruca, 4 Nisunbha, 5 Catrabha, 6 Bali, 7 Praharana, 8 Ravana, 9 Jarasand'ha: these were renowned by the title of Vasudévacula.

The government of these kings was overthrown by a race distinguished by the honorable title of Prati-vasudéva-cula viz. 1 Triprishta, 2 Dwiprishta, 3 Swayambhu, 4' Purushottama, 5-Purusha-vara, 6 Pundarica, 7 Datta, 8 Lacshmidhara, 9 Narayana.

The title of the other inferior kings was Mandalád'hísa. These Narachacravartís and Ard'hachacravartís, wresting the sovereignty from each other, ruled at different periods, up to the beginning of the present age-

Narachaeravarti signifies entire sovereign, ruling, without interruption, the six parts or divisions of the terrestrial world. † Ard'hachaeravarti signifies half sovereign; or who ruled three C'handas or divisions of the earth. The Mandalad'hisas were Rájás of particular divisions: these governed the world, at diffeent periods, to the expiration of the last age.

In the beginning of this age, during the life of VARD'HAMANA SWA-Mi, who was the twenty fourth Tirthacar, or pontiff of the Jain religion, there was a Mandalad'hisa, called SRENICA MAHARAJ. In his reign, the religion and people of the Jain sect were protected; he reigned for a considerable time at Rajagrihapur, and departed from this world. After his death, the kings CHAMUNDARAYA, JANANTARAYA and other princes (nine Cholarus and nine Ballols;) governed the dominions of Hin-

<sup>\*</sup> This defignation belongs to those named in the subsequent lift. H. T. C.

<sup>†</sup> The fix C'handas of Bharata varsha.

<sup>†</sup> The Ballóls or Balharas, as Sovereigns or Emperors of India, are mentioned in the relation of two Mahommedan travellers translated by Renaudot. C. M.

dustan, to the time of Bijjalraya, who ruled with renown in the city of Calyana. Afterward, the Dacshin of Hindustan was conquered by the Sabdapramans, \* or those who receive and admit the authority of the Védas. Next, the kingdom was ruled by Pratap-Rudra, Rájá of Vórangall; and, after his death, by the kings of Bijaynagar, called -Ráyúl; till the time of Críshna-Raya and Ráma-Ráya; from which period, the Dacshin sell under different Musleman governments.

The Jains are divided into four classes or casts, in like manner as the followers of the Védas, viz. Bráhmens, Cshatris, Vaisyas, and Šúdras; the Bráhmens are the priests, or ministers of religion, for the other three casts; their duty is to study the Puránas and Sástras, but they have no Védas. However, they have the Ágama Sástra, treating of prayers and other religious duties. They worship the fire, in the ceremony of marriage, and in that of initiation (Upanayana). † The Jains observe the time of mourning for their deceased relations, according to their casts, as follows: An ascetick or Yati should mourn for the death of his relations one minute; Bráhmens are to mourn ten days; Cshatris, sive; Vaisyas, twelve; Šúdras, sisteen. Their lower or inferior cast consists of the Pariyas or Chándálas.

THERE are four orders of priests among the Jains, as among Hindus in general, 1 Brahmachárí or student, 2 Grihastha or householder, 3 Vanaparasta or hermit, 4 Bhicshuca or mendicant.

THERE are fixteen ceremonies, which the Jains, as well as the followers of the Vedas, observe. Among which are 1 (Garbád'hana) the ceremony at the consummation of a marriage, 2 (Símant) adorning a

<sup>\*</sup> So the Jains affect to call the followers of the Vedas, as believing on hearfay, what they cannot know, or demonstrate to be true, from the evidence of their fenses. C. M.

<sup>†</sup> This must arise from employing, at those ceremonies, Brahmens of the orthodox sect. The Jains, themselves, do not appear to worship fire. H. T. C.

married woman's head with flowers, when she is six months gone with child, 3 (Játacarma) ceremony on the birth of a child, 4 (Námacarma) on naming a child, 5 (Annaprásana) when, at six months old, or within a year, the child is we aned, or first fed with other sustenance than his mother's milk, 6 Boring the ear, shaving the head, and placing the sacred thread round his neck, 7 (Viváha) the sirst marriage, or rath r betrothing, 8 (Sástráhhasa) the ceremony observed when the young lads begin to read the Sástras, at the age of sive years, five months and sive days. 9 They also observe other ceremonies, together with those of sunerals, &c. &c. &c.

THEY perform the ceremony of Upanayana, or initiation, for a boy, between five and nine years of age; which is the period when children begin to study the books of the law. A student, till he is married, should tie only a thread round his loins, with a rag to cover his nakedness: he should carry constantly in his hand a small staff. This is practifed till his wedding-day ; when, as foon as he is married, he attains the fecond rank, or that of householder: then he may dress properly at his pleasure; and should now endeavour, by labour, service or trade, to provide for, and fubfift his family: he should act in all respects agreeably to the inflructions of his preceptor. Befides these duties, there are fix particularly affigned, to be performed in the station of householder, as follows: 1 Worthipping God; or the images of the ancient faints. 2 Venerating spiritual parents. 3 Studying or reading their holy books. 4 (Tapafya) internal or mental devotion, abstracted from all thoughts, but that of the deity. 5 Making and fulfilling of vows for the attainment of wishes. 6 Giving to the poor.

THERE are three classes of Yatis, or asceticks, among the Jains, viz. Anuvrata, Mahavrata, Nirvana. To attain the rank of Anuvrata, one

must forsake his family, entirely cutting off his hair, throwing away the facred thread, holding in his hand a bundle of peacock's feathers, and an earthen pot (Camandalu), and wearing only tawny coloured clothes; he must reside for some time in one of their temples. He next proceeds to the second rank Mahavrata; when, totally abandoning any degree of élegance in his dress, he uses only a rag to cover his nakedness, as a Brahmachari: he still retains the fan and pot; he must not shave the head with razors, but employs his disciples to pull out the hair by the roots. \* On the day, on which this operation is performed, he abstains from food; at other times he eats only once, daily, of rice put in the palm of his hand. Having, for a confiderable time, remained in this slate of probation, he attains the third degree of Nirvána; he then lays aside even rags, and, being quite naked, he eats, once every second day, of rice, put by others in the palm of his hand; carrying about with him the clay pot and a bundle of peacock feathers: it is the business of his disciples to pull out his hairs; and he is not to walk, or move about after the fun fets. He now is called by the dignified title of Nirván; and the Jains worship him as God of their tribe, in like manner as the images, which they worship in their temples, of their ancient Nirvans or Gurus. Yet they fay, that these are not the likeness of God; "because no one knows God, or has seen his likeness, that he should be able to describe him." However, they adore these images of their Nirvana-naths as Gods.

daily, in the morning, afternoon and evening. In the change and viciffitudes of all things, that degree of strictness is omitted, and they now

To the effects of this operation, they attribute the appearance on the heads of the images of their Gurus, which Europeans suppose to represent curly or woolly hair. C. M.

wash only once a day before they eat: generally they eat their food on leaves, and sometimes in brass vessels; but that is not practised in this country.

THE Chatris, Vaisyas, and Súdras, among the Jains, may eat victuals dressed by Jain Bráhmens; but Bráhmens never eat food prepared by any but their own tribe.

"To abstain from slaughter is the highest persection; to kill any living creature is sin." Hence the Jains abstain from sood after sun-set, lest sin be incurred by depriving any animal, even the minutest insect, of its life, in their sood; for the same reason, they never drink water without straining it through cloth.

The principal tenets of their religion, translated from a stanza of their books, follows: "The Jains should abstain from the following things, viz. eating at night; slaying any animal; eating the fruit of those trees that give milk, pumpkins, young bambu plants; tasting honey, sless; taking the wealth of others; taking by force a married woman; eating slowers, butter, cheese; and worshipping the Gods of other religions. To abandon entirely the abovementioned, is to be a proper Jain." The Jains (even the young lads) never taste honey, as it would occasion expulsion from their cast. They never taste intoxicating liquors, nor any other forbidden drink.

A MAN, who neglects to observe due precautions, that no living creature be exposed to danger, from the following five domestic occupations, \* will not be admitted to the sacred presence of God. 1 In

<sup>\*</sup> See Menu 3 v. 68. The same notion occurs there; but the orthodox have sacraments to expiate the involuntary sin. The Jains, not admitting the efficiency of religious acts, are content to use precautions to avoid the sin. H. T. C.

solvening firewood, 2 forming the floor, and smearing it with cowdung, 3 cleaning the fire place, 4 straining water, 5 sweeping the house. When about to perform these offices, he should first be careful, that there be no insect: for it a mortal fin to hurt any living being.

THE women should marry before their monthly courses appear; though, owing to changes, and particularly, their poverty and depression, they are now obliged to put off this ceremony till long after their proper age, for want of money to defray the expense. When a woman is unclean, she must stay at a distance from her relations, in unchanged clothes, for four days. On the morning of the fifth day, she is permitted to mix with her family, after ablution.

A Jain woman never marries but once; and, if the husband dies when she is young, she must remain a widow as long as she lives, being forbidden to wear ornaments or delicate apparel, or to use nice food. In the western quarter, towards Saondha, Caodyal, &c. when the husband departs from the world, the widow's head is shaved, in like manner as the Brahmen widows of other countries; but this custom has gone out of use in this country for a considerable time: a widow never dresse elegantly; and is not allowed to wear glass rings, or the Mangalasiutra (an ornament on the wedding day, tied round the neck of the bride by the husband), nor to use the yellow and red colours or paint, by which married women are particularly distinguished. While the husband lives, they may wear all ornaments allowed by the law: opulent people of this tribe are still permitted to dress like other Hindus, in all kind of costly apparel suited to their station.

WHEN a man dies, they burn the corpse, and throw the ashes into water; the rich cast the ashes into rivers. They never perform other ob-

fequies, as their law fays "the spirit is separate or distinct from the body, which is composed of five elements; when, therefore, the corpse is burnt, the several parts, which composed it, return to their former state: confequently, to the deceased, no ceremony is due." After death, as nothing of him remains, therefore they omit to perform the monthly and annual ceremonies, which other Hindus observe on this occasion; and they give these reasons in vindication, "A man should feed himself with the best food, while he lives in this world, as his body never returns after it is burnt."

THEY further fay that the foolish people of other tribes, being deficient in facred knowledge, spend money in vain, on account of deceased relations: for how can a dead man feel satisfaction in ceremonies, and in the feeding of others? "even a lamp no longer gives light by pouring more oil into it, after its slame is once extinguished." Therefore it is vain to make feasts and ceremonies for the dead; and, if it be wished to please relations, it is best to do so while they are yet living, "what a man drinketh, giveth, and eateth in this world, is of advantage to him, but he carrieth nothing with him at his end."

eyes; and should never believe what he heareth from others." The Jains do not (like the followers of the Vedas) believe, that this world exists by the supreme power of God; for they say, that the world is eternal, and that its changes are natural. They deny, that the world is wholly subject to destruction, for all things are born by the power of nature; God only is exempt from Carma, or the frailties and inconveniencies of nature.

As the Jains profess, not to put faith in oral testimony, and only believe in what is perceptible to their own organs of sense; therefore, they do not believe, that God is in the heavens, above, " because no one ever faw him," and they deem it impossible for others to see him; but they believe in their Tirthacars, as their ancestors have seen and given a full description of the first prophet or Guru, who attained the flation of Nirvana by his extraordinary perfections and actions, to the fatisfaction of mankind down to the present age. Since his time, they have images of the feveral Gurus, who fucceeded him, and were incarnate as protectors of their religion. These naked images they worship in their temples with all due ceremonies; they confider them as Gods, or rather as reprefentatives of God, whom they describe as follows. "He has a likeness, and no likeness; he may be compared to an image of crystal: He has eight good qualities, and is exempt from eight evil qualities. He is all wife; all feeing; the father, or the origin of all; enjoying eternal blifs; without name, without relation, or beginning; infinite; undefcribable." The eight evil qualities, from which the nature of God is exempt, are ignorance, mental blindness, pain incident to nature. The distinction of name, of tribe, delusion, mortality, dependence. He who possesses these good qualities, and has overcome these evils, or is superior to them, is the God of the Jains, or Jineswara, being incarnate in the shape or body of one of their Gurus or Tirchacars. Therefore, the Jains worship the images of their Gurus, as the means of attaining the following stations: I (Saloca) a flation, whence God is beheld at a distance; 2 (Samipa) one, in the presence of, or near, God; 3 (Sarupa) fimilarity to God; 4 (Sayoga) union with God. According to these feveral gradations, he belongs either to the order of ist (Grihastha) a householder; 2dly (Anuvrata) the lowest rank of asceticks, 3dly (Mahavrata) the second; or 4thly (Nirvana) the highest.

Bur a bad man, who leads an evil course of life, in contradiction to their facred laws, departs at his end to hell, or Naraca.

THE Jains of this country never follow any other trade than merchandize. They wear a cloth round the loins, a turband on the head, and a jacket to cover the body; and put a mark with fandal powder on the middle of their foreheads: fome have a small circlet with red powder, in the center of the sandal mark, by way of further decoration.

THE following is the formula used by the Jains of the Carnatac, on beginning to perform their ceremonies.

who was created by the supreme power of God: and in the center of the three worlds, in the central world, and in the island of fambúdwipa (in which appears the renowned fambú tree); Southward of the great mountain of Mahá-Méru, in the land of Bharat, on the good soil of the renowned division of Carnátaca-Désa, in the village or town of \_\_\_\_\_, and in the \_\_\_\_\_ part or quarter of the present age of Cali-yuga; and it being now within the fifth division of time; according to the Saca of Rájá Vicramárca (as accepted by many great and excellent people, who obferve the gracious laws,) and in the present year of Saltvahana, and in the present year of the cycle \_\_\_\_\_ month of \_\_\_\_\_ fortnight of \_\_\_\_\_ and on this holy day (including also weeks, stars, signs, hours and minutes) I now begin this &c. &c. &c."

THE preliminary form of addressing letters by the Jains, to one another, is as follows viz.

To him, who possesses all good qualities, who performs all charities (or bestows alms), according to the laws, who observes the rules

of the Jains, who has zeal to repair the Jain temples, who perfeveres in observing the ceremonies of Ashtami and Chaturdasi (8th and 14th of each half month); he who purifies his head by the drops of the sandal water, in which the images of the Jinas are bathed, to such I bow my head &c. &c."

As the Brahmens, who follow the Vedas, fast on the day called Ecadasi (11th of each fortnight); in like manner the Jains fast on the 8th and 14th days (Ashtami and Chaturdasi), twice a fortnight: they also worship the serpent Nága, on the sestival of Anantachaturdasi, in like manner as other Hindus, and tie over their shoulders a red thread.

AT this time, the Jains have four Mathadhipas, or chief pontiffs, at the following places, 1 Penugonda or Pennaconda, 2 Canchi or Conjeveram, 3 Collapur, 4 Delhi.

THEIR Sannyásís, for a long time back, have resided in these places, with power over all those professing their religion; these pontists teach their laws, duties and customs; and, if they observe any irregularities among their slocks, punish them according to the nature of the offence.

The Jains intermarry with women of other families or Gótras, and eat with the disciples of their several priests and casts. But, though the Jains of all countries are of the same religion, they should not employ the Gurus of one Marha or college, to attend funerals and perform the ceremonies of another; but they are to behave with respect and civility to them, on account of their profession and rank.

Sravana Bélligóla is the principal refidence of the Jain Gurus: even the Jains below the Gháts confider it as the chief place; but, with the permission of the head pontiff, as it is too distant from them, his disci-

ples established three subordinate Gurus, in three different places, below the western Ghâts, at Mooda, Beedeery, Caroocollom, and Soda. Jain Sannyâsis now reside in these places, to attend to the laws and ceremonies of their religion.

THERE is a famous image, of eighteen times the height of man, upon a rock near Bélligóla, named Gómareswar Swamí. \*

In the books of the Jains, it is mentioned that there was formerly a golden image, of 500 times man's height, at Padmanabh-pur, which was inundated by the fea; and they believe, that it can still be fometimes feen in the water.

THEY generally account modestly for all their tenets, and conduct themselves with propriety; and never affert, that their bodies are eternal, and that there is no God; nor do they, like the Baudhists, say: "After death there is no pain in the stellar or feeling: since it feels not pain, nor death, what harm is there in feeding upon it, when it is necessary to procure health and strength."

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## NOTICES OF THE JAINS,

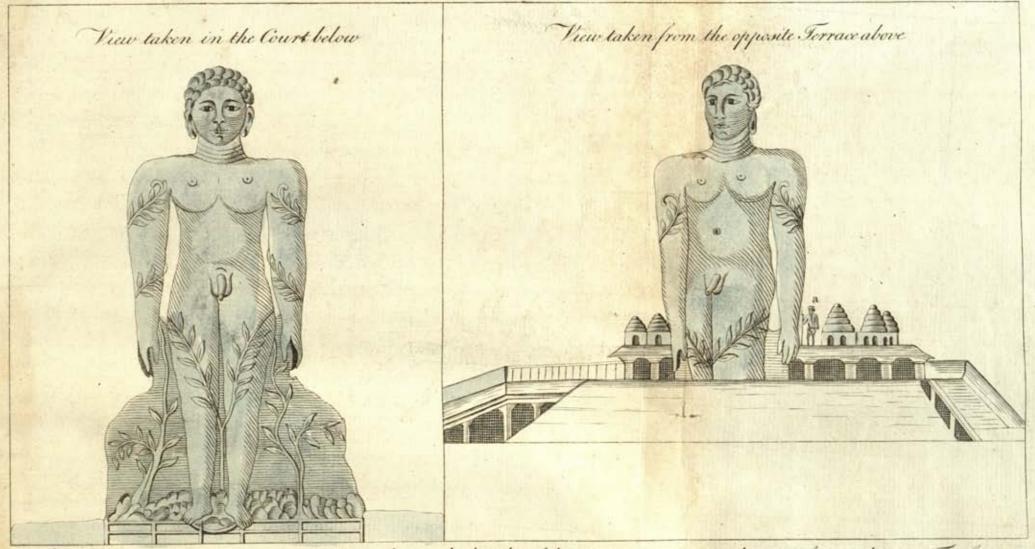
RECEIVED FROM CHÁRUCÍRTI ÁCHÁRYA,

# THEIR CHIEF PONTIFF AT BELLIGOLA IN MYSORE.

FOR the information of mankind, be it known, that the foundation of ages or times is countless: that the origin of Carma or passion is inconceivable; for the origin of the soul or spirit is too ancient to be

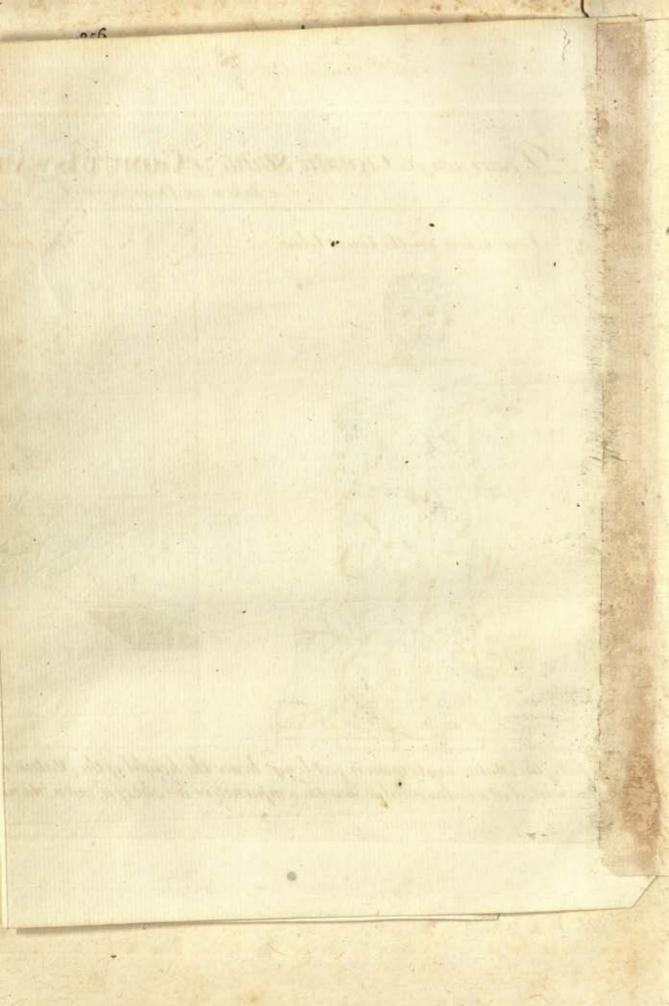
<sup>\*</sup> This image is represented in the annexed drawing. At Kurcul near Mangalor, there is also a gigantic image of Gómatéswar. C. M.

# Drawings of the Gigantic Statue of GOMUT ISWAR at Billacult or Bellagolla taken in December 1801



The foot of the Matue is glommon feet long: hence the height of the Matue is estimated at 54 feet at least. The figure represented at a is designed to show the comparative height of a man standing on the opposite terrace near the Statue

F.Dormieux Scuhe Calcutta 1806.



known: therefore, we ought to believe, that human kind is ignorant of the true knowledge of the origin of things, which is known only to the Almighty or Adiswara, whose state is without beginning or end; who has obtained eternal victory over all the frailties of nature and wordly affections.

There are two great divisions of time or ages, established in the universe by God; called Avasarpini, and Utsarpini: each of them are reckoned at ten Crórs of Crórs of Ságarópamas. Utsarpini is divided into six portions, which are named 1 Atiduc'hamá, 2 Duc'hamá, 3 Duc'hamá Suc'hamá, 4 Suc'hamá Duc'hamá, 5 Suc'hamá Suc'hamá, 6 Suc'hamá. The second age, Avasarpini, is also divided into six parts, by name 1 Suc'hamá, 2 Suc'hamá Suc'hamá, 3 Suc'hamá Duc'hamá, 4 Duc'hamá Suc'hamá, 5 Duc'hamá, 6 Atiduc'hamá. These two grand ages, eras, or periods, as well as their divisions, revolve for ever in the universe, like the course of the fortnights, and the increase and decrease of the moon, in the regions frequented by mankind. The number of these regions is a hundred and seventy; ten of which are distinguished by the names of sive Bharatas, and sive Airávatas. These divisions are particularly explained in the book called Trilócasata.

Among the ages abovenamed, the revolution of four Crórs of Crórs of Ságarópamas was affigned to the first or Suchamá. During that age, men subsisted on the produce of ten different Calpavricshas or celestial trees, called Bhójanánga, Vástranga, Bhúshanánga, Málánga, Grihánga, Racshanánga, Jyótiranga, Túryánga and Bhájanánga. Thus men used to subsiste on the spontaneous produce of the trees; and kings ruled not the earth; all were abundantly happy; and the people of that age were dis-

<sup>\*</sup> Oceans of years. This measure of time will be subsequently explained, H. T. C.

tinguished by the name Uttama-bhoga-bhumi-pravartacas, supremely happy inhabitants of the earth.

On the commencement of the second age, Suc'hamá Suc'hamá, which lasted for three Crórs of Crórs of Ságarópamas, the miraculous gifts of the heavenly trees were less than in the former age, though they still supplied the wants of mankind and their subsistence; but the men of that age were inferior in complexion, stature, strength, and longevity hence they were called Madhyama-bhóga-bhúmi-pravartacas, moderately happy inhabitants of the earth.

This was followed by the third age, Suc'hamd Duc'hamá: its measure is two Crórs of Crórs of Ságarópamas. During this period, the people were still more straitened in the produce of the Calpavricshas, as well as inferior in longevity, color, health and happiness: the people of this age were named Jaghanya-bhóga-bhúmi-pravartacas, or least happy inhabitants of the earth.

In these periods there were born, at different times, fourteen Manus, by name 1 Pratisruti, 2 Sanmati, 3 Cshemancara, 4 Cshemandhara, 5 Srimancara, 6 Srimandhara, 7 Vimalavahana, 8 Chacshushman, 9 Yasaswi, 10 Abhichandra, 11 Chandrabha, 12 Marudeva, 13 Prasannajita and 14 Nabhiraja.
The last Manu, having married Marudeva, begot a fon, named Vrishabhanat'ha Tirt'hacar.

THE fourth age, called Duc'hamá Suc'hamá, is in measure 42000 years less than the amount of one Crór of Crórs of Sagarópamas; and no miraculous fruits were produced in this age.

Or SIMAD'HARA.

BEFORE the commencement of the fourth age of the Avafarpini, when the time of destruction appeared to be nearly approaching to mortals or mankind, through the disappearance of the Calpavricshas or celestial trees, VRISHABHANAT'HA TIRT'HACAR was incarnate, in this world, as fon of the fourtenth Menu, NABHIRAJA, at the city of Ayod'hya. By his auspicious birth (at the prayer of thankind, who were distressed for food, and were dying;) and by his inftructions, the knowledge of good and bad, of possible and impossible, and of the means of acquiring the advantages of earth and of heaven, was obtained. He also, arranged the -various duties of mankind, and allotted to men the means of sublistence, viz. Así the sword, Masí letters (literally ink), Crishi agriculture, Vanijya commerce, Pasupála attendance on cattle. Upon this arrangement, he became king over all mankind, and composed the four facred books, called Prathamanuyoga, Carananuyoga, Charanánuyóga, and Dravyánuyoga. Thus VRISHABHANAT'HA TIRT'HA-CAR established the religion of the Jains, in its four classes, or casts, of Brahmens, Chatris, Vaisyas and Súdras; and delivered the charge of those sacred books to their care. These writings becoming obsolete, and the language not being understood by the common people fince that time, the meaning of the originals has been explained, in various works, in the language of different countries. He also composed feveral books on the sciences, for the improvement of mankind.

AFTER he had fettled and arranged laws and regulations of all kinds, mankind, from that period, began to follow his inflitutions, looking on him, in every respect, as equal to God; and, upon his departure from this world, to Mocsha, or the state of the Almighty, his image was venerated as Jaineswar, or the Lord of Jains: as he had early subdued, by

his wisdom all worldly affections, and was relieved from restraints and carnal ties.

BEFORE the departure of VRISHABHANAT'HA TIRT'HACAR, his wives were Asasvati and Sunandadevi; by the former he had a fon, named BHARATA CHACRAVARTI; and by the latter Gomates-wara Swami. The eldest, Bharata chacravarti, ruled over the whole of the six divisions of the earth, and named it Bharatacsheira; from that period the earth bears his name. The metropolis of this king was Ayód'hya (or Oude). After he had ruled for a considerable time, he appointed his younger brother, Gomateswara Swami, to the government. Then abandoning the (Carma) actions or affections of mankind, he obtained the fruits of his facred contemplation, and proceeded to Mócsha, or heavenly salvation.

GÓMATESWARA SWAMI, after he was charged with the government, ruled for a confiderable time, in a town named Padmanabh-pur; in the end, he attained (Nirvána) beatitude in heaven, and departed thither. Since his death, the people worship him, in all respects, as Jinéswara, or God. From that period, twenty-four Tirthacars have passed, during the age of Avasarpini, up to the end of the Dwápara-yuga.

According to the Jains, there were born other twenty-four Tirthacars in the world, during the first age, besides the twenty-four from the birth of VRISHABHANAT'HA SWAMI. The names of the Tirthacars of Atitacála or past times, are as follow, 1 NIRMANA, (1) 2 SAGARA, 3

<sup>(1)</sup> NIEVANI, in HEMACHANDRA'S wocabulary.

Mahanatha, (\*) 4 Vimalaprabha, (3) 5 Sridhara, (4) 6 Sudanta, (5) 7 Amalaprabha, (6) 8 Udara, (7) 9 Angira, (8) 10 Sumati, 11 Sind'hu, (9) 12 Cusumanjari, 13 Sivaganga, (10) 14 Utsaha, 15 Ganéswara, 16 Paraméswara, 17 Vimaléswara, (11) 18 Yasod'hara, 19 Crushta, (12) 20 Ganamurti, (13) 21 Sidd'hamati, 22 Sríbhadra, (14) 23 Atriconta, (15) 24 Santi.

To the Tirthacars, who departed to Mocsha in the times of antiquity, the Jains pay a respectful adoration, even more assiduously, and with greater veneration, than to their Tirthacars, who were incarnate, according to their accounts, in the age, or period of time, called Utsarpini.

In their prophecies it is faid, that the following are the names of the Tirthacars, yet to be incarnate, in the future or next Utfarpini period:

1 Mahapadma, (1) 2 Suradeva, 3 Suparswana, (2) 4 SwayamPrabha, 5 Sadatmabhuti, (3) 6 Devaputra, (4) 7 Culaputra, (5)

8 Udanca, (6) 9 Crusta, (7) 10 Jayacirti, (8) 11 Munisuvrata, (9)

12 Ara, 13 Nepompa, (10) 14 Nishcashaya, 15 Vipulaca, 16

Nirmalla, 17 Chitragupta, 18 Samadhigupta, (11) 19 Swayam-

<sup>(2)</sup> Mahayasas, H. (3) Vimala, H. (4) The 5th is Sarvanubhuti, and 6th Sribhara, according to Hemachandra. (5) Datta, H. (6) Unnoticed by Hemachandra. (7) Damodara, H. (8) Unnoticed by Hemachandra, who states, 9th Suteja, 10th Swami, and 11th Munisuvrata. (9) Unnoticed by Hemachandra. (10) Sivagati, H. (11) Anila, H. (12) Critart'ha, H. (13) Jineswara, H. (14) Sivacara, H. (15) Syandana, H.

<sup>(1)</sup> PADMANABHA, according to HEMACHANDRA. (2) SUPARSWACA, H. (3) SARVANG-BHOTI, H. (4) DEVASRUTA, H. (5) UDAYA, H. (6) PET'HALA, H. (7) POTTILA, H. (8) SATACIRTI, H. (9) SUVRATA, H. (10) AMAMPA, H. (11) SAMADHI, H.

BHU, (18) 20 ANUVARTACA, (13) 21 JAYA, (14) 22 VIMALEA, (15) 23
DEVAPALA, (16) 24 ANANTA VIRYA, (17)

THEIR ancient Tirthacars, being endowed with the gift of prophecy, predicted the future succession of these Tirthacars, for the information of the world.

Thus it is truth, that time and age gradually revolve for ever; yet no decay or destruction arises hence to the universe, and its various worlds, to the earth, to spirits, and to souls; but the mortal bodies of mankind and Dévatas perish, while the Vimanas\* endure.

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HISTORICAL AND LEGENDARY ACCOUNT,

# BÉLLIGOLA,

COMMUNICATED BY THE HIGH PRIEST AT THAT STATION.

IN ancient times, an image was at this place, self formed from earth, under the shape of Gómat Iswara Swami, which Ravana, the monarch of the Racshases, worshipped, to obtain happiness. After many ages were elapsed, and on the access of the present age, a king of the southern dominions reigned, named Rachamalla. His minister of sinance was named Chamunda-Raya, who was remarkably devout in the performance of the religious duties of the Jains. It was reported to him, by a travelling merchant, that there was, in the city of

<sup>(12)</sup> SAMBARA, H. (13) YASOD'HARA, H. (14) VIJAYA, H. (15) MALLA, H. (16) DEVA, H. (17) HEMACHANDRA, having omitted one of the preceding (ARA), adds BHADRACRIT as the 24th of these Jinas.

<sup>\*</sup> The abodes of deities of various classes.

Padmanább-pura, an image of GÓMAT ÍSWARA SWAMÍ. On hearing this relation, he made a vow, before all the people, not to drink milk, until he faw the image of GOMAT ISWARA. When he retired from the public hall to his own apartments, he found his mother also disposed to follow the same resolution; and they both went immediately into the presence of SINVANANDA ACHARYA, who was their facred minister of religion, and acquainted him with the vow, and obtained his confent to the journey. Then fetting off, with a moderate retinue of the four descriptions, (horse, foot, elephants and cars,) towards Padmanabh-pura, he halted at this village, during a few days, for refreshment; and being informed by the inhabitants, that there was a facred temple of the Jain worship on the summit of Chandragiri, which was founded by CHAN-DRAGUPTA MAHARAJ, he there performed the customary ceremonies and worship. As he slept there on that night, the heavenly nymph, CUSHMANDAMA appeared to him in a dream, and recommended to him to defilt from his intended journey to Padmanabh-pura, as it was toodistant; and to worship another image of GOMAT ISWARA SWAMI, eighteen times man's height, on the mountain of Indragiri; equal for miracles to the image that was in height fifty-two fathoms at Padmanabh-pura. To make the discovery, he was directed to shoot an arrow. towards the fouth, and follow its flight; by this means he would discover the image, on the spot where that arrow should fall.

On the next morning, CHAMUNDARAY acted according to the advice given to him in his dream, and was extremely rejoiced at the discovery of that wonderful image. He afterwards fixed his residence on that spot for twenty years; and made the workmen cut it out into a regular shape, with the utmost accuracy of proportion in all its parts; the seve-

ral proportions of the body resembling the original likeness of Gómat Iswara Swami, in prosound contemplation, to obtain Mócsha. He also caused several buildings to be constructed, as temples and other edifices, round the God. On their completion, he established the worship of the image, as God, with great ceremony and devotion, in the year of the cycle Vibhava, when 600 years were past of the Cali-Yuga.\* After he had placed the image, Chamundaray granted in gift, to the God, the lands situated on all sides of the place; to the value of 19,000 pagodas, for the performance of the daily sacred ceremonies, as well as those which return periodically.

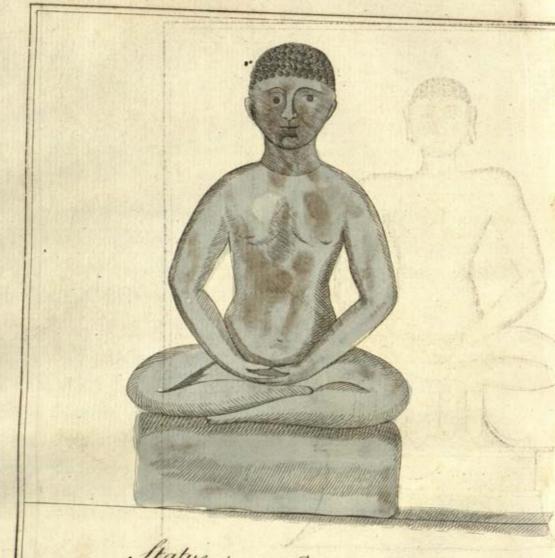
AFTERWARDS this kingdom was ruled by feveral Rájás, from the time of BALALRAY down to VISHNU-VARDD'HAN. In their reigns, the Jains added feveral buildings to the former work, and were allowed the enjoyment of the lands affigned to the God.

THE fuccessors of Sinvananda Acharya, who was Guru to Chamundaray, resided here, to manage the religious affairs of this place, and of other places of the Jain tribes. The present Guru at Bélligola is the regular successor, according to the following list of Gurus, from the last of the ancient twenty-four Tirthacaras in the fourth age, who was named Vardhamanaswami, and who attained beatitude (Môcsha) 2464 years before the year of the cycle Durmati (or A. D. 1801);†

<sup>\*</sup> MAJOR MACKENZIE remarks the inconfishency of this with the subsequent computation of 2464 years. The Cali-yuga is not a mode of reckoning in use among the Jainas, though repeatedly mentioned in these papers. Perhaps the present or fifth age, according to their computation, may be an meant. It being the fourth year after VARD'HAMANA'S demise. H. T. C.

<sup>†</sup> I have been informed by Jainas in Bengal, that they reckon VARB'HAMANA to have lived 580 years before the Era of VICRAMADITYA. H. T. C.





Statue dug up at Conjeveram
supposed to belong to the Jain Workship 18. August 1799

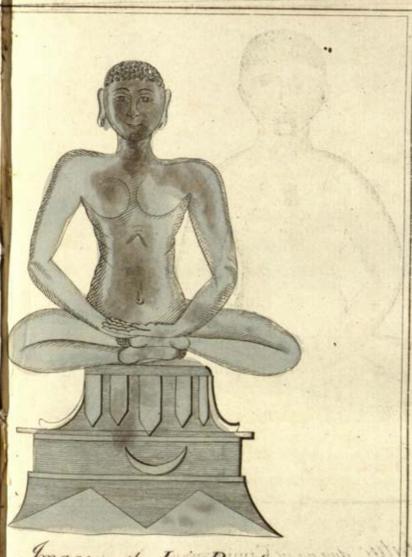
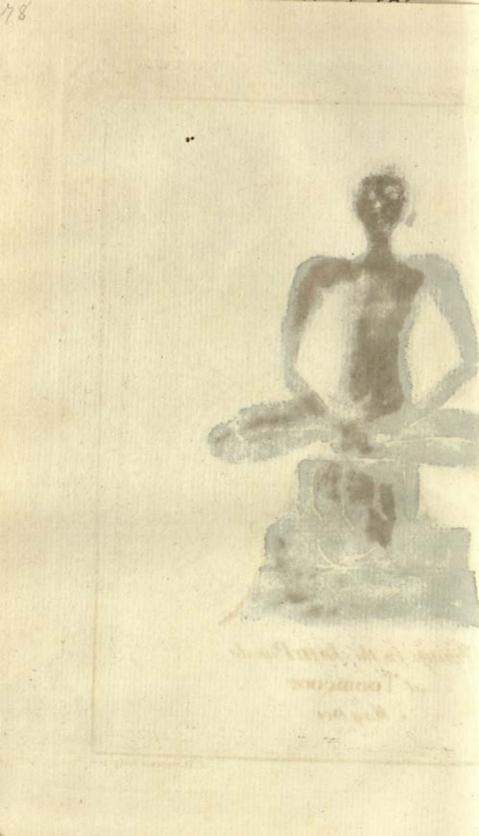


Image in the Jain Pagoda
at Toomcoor May 1500 WEN Sample AN



at the time when SRENICA-MAHARAJ, having ruled for the space of a hundred years, departed to heaven.

#### D-#-0€

List of the Names of the Gurus, from the last Tirthacara of ancient times, down to the present Guru,

VARD'HAMANA SWAMI,

The 24th Tirthacara of the last list.

1. GAUTAMA,\* 2 SUDHARMA,† 3 JAMBUNAT'HA, 4 VIRASEM ÁCHARYA, ‡ 5 VRISHABHASEN ÁCHARYA, 6 SIDD'HASEN ÁCHARYA, 7 VIRASEN ÁCHARYA, 8 SINVANAND ÁCHARYA, 9 CUNDA CUND ACHARYA, 10 GRÍDHRAPENCH ÁCHARYA, 11 MAYURAPENCH ÁCHARYA, 12 DHARASEN ÁCHARYA, 13 BAHUSEN ÁCHARYA, 14 CÁLIPARAMESWAR SWAMÍ, 15 JINASEN ÁCHARYA, 16 GUNABHADR ÁCHARYA, 17 ÁKALONKA SWAMÍ, 18 VEEKALONKA SWAMÍ, 19 ABHAYACHANDRA SIDD'HANT, 20 SRUTAMUNIVATARCA, 21 PUJYAPADA, 22 VIDYANAT'HA, 23 JAYASENA, 24 AVÍRASENA, 25 LACSHMÍSENABALARCA, 26 CHARUCÍRTIPANDIT ÁCHARYA, the present priest at Bélligola: his age is 65; and he arrived at his present rank 30 years ago.

CHAMUNDARAY, after having established the worship of this image, became proud and elated, at placing this God, by his own authority, at

Meaning VARD'HAMANA's eldest disciple, named INDRABHÚTI, and surnamed GAUTA MA, because he was of that family or Gótra. H. T. C.

<sup>†</sup> Sud'HARMA was one of VARD'HAMANA'S disciples, and the only one who has left successors. H. T. C.

The disciple and successor of Jameuswami was Prabhava. The person, who furnished this lift, has skipped from Sud'harma's disciple to some priest who may have been his remote successor, at an interval of several hundred degrees. H. T. C.

fo vast an expense of money and labour. Soon after this, when he performed, in honour of the God, the ceremony of Panchamrita Snana, (or washing the image with five liquids, milk, curds, butter, honey, and fugar;) vast quantities of these things were expended, in many hundred pots: but, through the wonderful power of the God, the liquor descended not lower than the navel, to check the pride and vanity of the worshipper. CHAMUNDARAY, not knowing the cause, was filled with grief, that his intention was frustrated, of cleaning the image completely with this ablution. While he was in this fituation, the celestial nymph PAD-MAVATI, by order of God, having transformed herself into the like. ness of an aged poor woman, appeared, holding in her hand the five Amritas, in a Bélliyagola (or small filver pot,) for washing the statue: and fignified her intention to CHAMUNDARAY, who laughed at the abfurdity of this proposal for accomplishing what it had not been in his power to effect. Out of curiofity, however, he permitted her to attempt it: when, to the great surprize of the beholders, she washed the image, with the liquor brought in the little filver vafe. CHAMUNDARAY, repenting his finful arrogance, performed a fecond time, with profound respect, his ablution, on which they had formerly wasted so much valuable liquids; and washed completely the body of the image.

FROM that time, this place is named after the filver vase (or Bélliyagola) which was held in PADMAVATI'S hand. Sravana (Sramana) is the title of a fain Sannyási; and, as this place is the principal residence of these Sannyásis, the people call it Sravan-Bélligola.

MANY years after this period, a king, named BHATTAVARD'HAN, reigned at Dwaratipattan; which the people now call generally by the name of Doragul, or Dorafamudram. It is faid, that he wanted a fin-

ger. One day, as he fat with his concubine (who was of the Vaishnava feet) upon the terrace of his palace, she observed, in the public street, a Jain Sannyásí passing, who avoided conversing with any person, and was under a holy vow of abstaining from taking food in the house of any person who was lame, or deficient in any of the members of his body. Upon hearing of the vow which he had made, she asked the king, from motives of curiofity, " behold your Guru! will he at your request eat food with you?" The Rájá, not recollecting the customs of the Gurus, replied " why not? will he not come to the house of his own disciple? if he refuse at my request, I will abandon my sect, and bind myself to your command; but, if he comply, contrary to your expectation, you must conform to my sentiments." Then the Rájá, descending from the terrace, advanced to the Guru, and asked him to take food, walking, at the same time, round him, with closed hands, and pronouncing, three times fuccessively, the following facred form of words, according to the rules of their religion. " O Lord! reverence be to you! flay !- for BRAMARAYAH's fake-comply!" After he had used this prayer, he took water into his hands, to give to him, with the following form. " Adoration! O Lord! - Adoration! do purify this water!" But the Swami, without speaking, retired to the temple; where he resolved to fast that day, as an expiation for being invited to eat by a maimed man.

BHATTAVARD'HAN, following his Guru to the temple, upon inquiry was informed of its being forbidden by their law: he then explained to the Guru, what had passed between him and his beloved mistress, and earnestly intreated the priest to comply with his request; declaring, that if it were refused, he must join the other sext, whence great missortunes would befal their religion: the Swámí replied, that he would suffer death, or any other missortune, rather than for the king's savor do what was contrary to the law.

Upon this refusal, Bhattavard'han, agreeably to the commands of his mistress, whom he loved, joined her sect, which was that of the Vaishnavas; and, from that time, his name was changed, from Bhatta-vard'han, to Vishnuvard'han. This country was ruled, for many years, by his descendants. On the downfall of that dynasty of princes, their dominions were conquered by the kings of Bijayanagar.

AFTER the Rájás of Mysore had obtained possession of this country, nder the Anégóndi kings, they granted lands, of the amount of 1000 pagodas annually, to the God; and of the amount of 120 pagodas, to the college of Sannyásís. While their power lasted, they protected the Jains without permitting the intolerant spirit of other sects to disturb their religious ceremonies and duties. In the reign of Chicca-Devaraja Vadeyar, a Jain, named Annaya Chetty, constructed, at this place, the tank named Calyáni.

FORMERLY RAMANUJA, the famous Vaifhnava reformer, under the encouragement of the confusion which then prevailed in the government, came hither, with the vain desire of disputing with the Jains, about their laws and religion. After his conference with them, he had it proclaimed, that he had worsted the Jains, in their disputations on religion and law; and erected here a pillar, on which were inscribed the symbols of the Sanc'ha and Chacra; and, cutting off a small piece of the singer of the left hand of Gómat Iswar Swami, he departed.

Bélligola is the most revered place of the Jain worship above the Ghâts. Here are two mountains; one called Indragiri and the other Chandragiri: the former is situated on the north-west adjoining to the village: on its summit stands their samous image of Gomar Iswar

Swami, \* of the height of eighteen fathoms, inclosed within a strong wall, with many small temples and other buildings. Here were, in former times, seventy-two well shaped images; of which there now remain, in good condition, only forty-two, placed in a gallery, under a portico, supported by pillars, which is carried inside, along the wall. They say, that these are images of their Tirthacars, of the last, present and suture ages. The great image, being of too great height to be covered, is in the open air; appearing like a column on the hill, when viewed as far as eight cos on all sides.

On the other hill, called Chandragiri, close to the village, are several sacred temples; there are also many temples in the town. The Sannyasi resides in a Matha within the town; where are some images of stone and metal, for his domestic worship: in other places, he employs people to perform worship to them regularly. In the government of the Mysore Rájás, and of Haider Nayac, certain villages were granted, in Jagir, to the God and the college. There are not any samilies of any other principal casts, excepting Jains, in the village of Bélligola.

At this place they used to celebrate, once a year, a great festival to the God. Two months before its commencement, the head of the Matha used to send a written notice over the country, to announce the sessival to all Sravacs or Jains. On the receipt of this paper, great numbers of this sect, even from Hindustan, came to attend the ceremony, and worship the God. This sestival was neglected, for fix or seven years, through the oppression of the late government; and has not yet been renewed; because their lands have been resumed, and included in the lands of government.

<sup>\*</sup> Plate 2.

Translation of an inscription, cut on a stone, upon the hill of Belligota, in front of the Image.

## 'BE GOOD FOR ALL!

BE success to the samous Ramanuja\* who is lord above the lords of Atichis or Sannyasis; who, like the mighty fire from the face of Vádavánala, disperses or dries up the water of the ocean of Páshandas or insidels; who is chief among the slaves of the Lily seet of Srírangarája; who allows a passage through Vicunta, ornamented with many edifices of precious stones.

In the year of the Saca 1290, † in the Cilaca year of the cycle, one thursday, the 10th of the month of Bhádrapad, be success and glory to the honorable monarch, the sovereign and destroyer of envious princes, lord of foreign kings, whose name is Buccarraya. During his reign, on account of the disputes of the Jains and Bhactas, the principal citizens of the new city, or Hasápattan, of Anégóndi, of Pénagóndá, of Calahattí pattan, and of other places, represented to the prince the injustice committed by the Bhactas: he assembled a court, composed of the following people: Covila Tiramala, Peru Covila Tirumala Rayana, and other chief Ácháryas, judges, inhabitants, and other followers of the Tiruman and Térubadi marks, and the head people or chief officers of districts, and the Vaishnavas of Tirucul and Jambavacul; in which it was determined, that there was no real cause of difference between the

<sup>•</sup> RAMANUJA, the famous author of the Śri-bbūshya, and reformer of the Saiva doctrine, was born A. D. 1008. The invocation to him shows, that the inscription was placed with the comfent of Government. C. M.

<sup>†</sup> A. D. 1367.

Jains and Vaishnavas. The Mahárája, putting the hands of the Jains into the hands of the Vaishnavas, ordered that the Jains be permitted to use their former and usual great drums, as well as the Calahans-nada, which had been taken away by the Bhastas; and, for the performance of this, he ordered it to be made publick, by inscriptions carved upon strones, in the Jain temples, all over the empire, that no distinction, or contradiction, appeared between the religion of the Jains and Vaishnavas: therefore the Vaishnavas should agree to protect them, while the sun and moon endure. Terumatia, and the other chief people, then resolved, in token of their good will, that all the Jains, who are inhabitants of the different divisions of the world, should contribute annually, at the rate of one fanam for each family, to desray the ceremonies of their God at Bélligola Tirth, and to repair the buildings of the Jinalayas, or temples of Jina.

By continuing the above yearly gift for this purpose, while the sun and moon remain, will be obtained the advantage of great reputation and grace. If any person resulte its execution, he shall go to the hell of those who betray their kings and holy religion; and he, who prevents this charity, shall incur the sin of killing a cow, or a Brahmen, on the bank of the Gangá river.

"WHOEVER refumes gifts, in money or lands, granted by himfelf or others, shall be born as an infect in dung, for fixty-thousand years."

#### EXTRACTS OF A JOURNAL,

r'y

## MAJOR C. MACKENZIE.

NEAR Calyani. On arriving at Mudgiri, several appearances indicated a change in the country: via. the style of building of the pagodas; as we here found them of the mosque kind, with domes and pillars in front; others in which the Lingam was worshipped of a large size: in the Déwal of Ramalingam, one of them was a groupe of sive Lingams \*, and a great number of slones were placed round the temple, covered with sculptures. At a temple of Hanumán (the only one seen since we came into the Canara country) were several sculptures, also placed round the building; in one, a God or hero carried a coco tree; another was drawing a bow; a hand, in one place, covers a horseman; and an inscription, in two columns, was surmounted by the sun, moon, Lingam, &c.

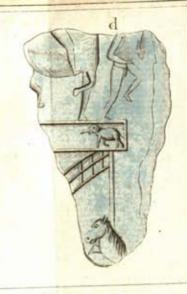
But that, which most attracted my attention, was, close to the mud wall, a round temple of blue stone, with a portico of sour pillars, curiously carved and ornamented: in the portal within, sacing the north, was a sigure, sitting cross legged, naked, his head covered with curls, like the sigure of Budd'h; the nose was defaced, and a fracture run through the sigure. The annexed sketch will give some idea of it. † A poor woman, near, said it was "the image of Chindeo or Jain-deo." Without, was a greater sigure of the same kind, also apparently defaced

The five Lingams, fignifying the powers of nature united in its five component elements, are fometimes feen in this form. C. M.

<sup>†</sup> Plate 4.







# 2017 promondation of the manager of

Inscription enlarged from b



JAIN-DEO

at Mudgeery near Callianee



Fragments of Sculptured Stones and up at Amarapoor or Amrishwaram in Guntoor 1798



and neglected: and, particularly, the several heads of snakes, which as a groupe shaded it, were mutilated. I could obtain no further information respecting it.

In consequence of notices received at Ongole, I determined to call at Amrésvaram, to see the antiquities lately discovered there, as the place is near the banks of the Crishna, and we could reach the place whither our tents were to be sent, early in the day. I therefore, despatched my interpreter Boria, accompanied by some Bráhmens and two Sepahis, in the evening, to Amrésvaram, with directions to make some previous inquiries into the history of the place: and to conciliate the inhabitants; particularly the Bráhmens, who are apt to be alarmed on these occasions.

In the morning, before day, we left Ibrampattan by moon-light, and passed along the north bank of the Crishna. We observed, a few miles. off, a dry but deep cálava, or canal, leading off from the river, probably intended for the purpose of cultivation. At day light, we were in the fandy bed of the river, which feems to be nearly two miles wide, including the islands; and contains no water at present. We ascended. the shallow bank to Amrefvaram. The temples appear to be new, and are said to have been recently built by the Chintapelli Raja, who has fixed his chief residence here, since Lacshmipuram was occupied by our troops. A high mud fquare wall encloses the temples and his houses; and the rest of the place is laid in regular streets, at right angles, in the same manner with his other places of Lacshmipuram &c. A street, going fouth from a gate of the temple, feems to be 200 feet wide; and an open choultry stands in the intersection of four principal streets. I found Boria ready to receive me, attended by fome Brahmens; who faid, that the people here were rather furprifed and alarmed, at the approach of Europeans and Sepahis, until he affured them, that our object was merely to view the lately discovered ruins. We were then conducted to those remains of antiquity. We found a circular trench, about 10 feet wide, dug about 12 feet deep, into a mass of masonry, composed of bricks of 16 inches square and 4 inches thick. It is probable, that this body of masonry did not extend to a greater depth. The central area was still untouched; and a mass of rubbish was thrown outside of the ditch, which prevented any observation of its original state; but I conjecture, that ' the whole had, previous to its opening, formed a folid circular mound. In this ditch, a white flab lay broken, which still exhibited some figures in relievo, of which MR. SYDENHAM took a sketch. Against the outfide of the trench, were placed three or four flabs, of the same colour, flanding, but inclining inwards; on the infide, where these were uncovered, they had no figures, except where the top of one role above the earth. Without, fome sculptures appeared, which lead me to conclude, that these fculptures were exposed on that fide to view. From the inquiries of my Brahmens, I could obtain no other account, than that this place was called Dipál-dinna, or the hill of lamps. The Rája, about a year ago, had given orders to remove a large stone, to be carried to the new pagoda, which he was building, when they discovered the brick work, which induced them to dig up the rest for the buildings. The white stones were then brought to light, and unfortunately broken; at least we could perceive few of them; and, though it was faid, that some were carried into the temple, \* the Brahmen, who was admitted, had perceived only fome broken pieces. The sculptured stones, obferved, were as follows:

<sup>•</sup> Some of these have been discovered lately (1804) by MR. WILLIAM BROWN, containing soulptures, inscriptions, &c. of which, it is probable, that copies may be procured. C. M.

A BROKEN piece,\* still lying in the ditch, or excavated foundation, on which appeared something like a Lingam, or a pillar, rising through what seemed shaped like a desk, but was probably designed for an altar; a male sigure stood on the lest, with its arms disposed as if pouring something on it; but, as the upper part, and what he held, were broken off, this seems doubtful. Near him stood a semale, holding a Chambú, or pot, on her head, in the Hindu stile. My Bráhmen naturally enough concluded, that this represented a semale carrying water to assist in the offering to the Lingam. The seet of two sigures remained on the right, which probably had appertained to two sigures in the same attitude on that side. The stone was a white marble, called by the natives Pál-ráyi, or milk stone.

NEAR it, stood three slabs, inclining inwards against the masonry, which had been dug out. On the side on which they were viewed, no sigures were seen; and they were rough and unpolished: it is probable, that they have sculptures on the side still covered with earth; and I have already mentioned, that some designs appeared at the top of one. If the whole of the circle was faced with these slabs, it is to be regretted, that this treasure of antiquity did not fall into better hands.

On the rubbish above, near these, and belonging to some unfortunately broken, were two pieces of the same white stone; one of these seemed divided into two compartments, by a border, on which three wild hogs running were sculptured: the outline is well designed. The leg of a figure sitting, and the hind leg of a horse, appear above, remaining of the original design. Below the border, the plane was inclined to a lower border: and in the space of about 6 inches, two lines of

<sup>·</sup> Plate 4, 2.

characters were carved: on cleaning off the dust, the first line appeared very legibly. I have to regret, that the approaching heat prevented
my remaining, to copy this inscription in fac-sim:le. Some of the characters
are, however, as I believe, faithfully given in the annexed attempt; \*
and I left a Brahmen to transcribe the whole, but his copy was not fatisfactory. In the place marked c c, some of the letters seem to resemble
those of the Ceylon inscription. The other piece contained the head
of a horse, and some defaced heads and prominent or naments. †

NEAR the gate of the temple lay a flab, grey with the crust of ages; but of the same white murble. On it, sive or six sigures appeared, sitting in various attitudes, on what at first sight seemed to be Lingams: but upon close examination, their seats resembled our chairs.

The most curious, and most complete piece of sculpture, we found, as we returned along the high mud wall of the temple; laid as a roof, over a small temple of Lingam, of the same materials. It represented the attack and escalade of a fortisted place. The principal figure, on an elephant (with the usual attendants, the driver and the sanner,) seemed issuing orders: before him, a pedestrian figure, with a round shield, seemed prostrating himsels: a graceful figure, at sull length, stood close to the gate of a tower, fronting them. The tower, which was ostangular, was surmounted by a rounded roof on pillars, of the shape of an Ambari; under which an archer was represented, in the act of drawing his bow, and shooting at an assailant, who covers himself with his shield, while mounting the rampart by a ladder: another figure, from behind the rampart, appeared peeping over, and covered by some desensive

<sup>·</sup> Plate 4, b, c c, b b b.

<sup>7</sup> Ibid, d.

arms: feveral horse men, and a man mounted on a bullock, seemed to support the attack. The town and rampart seem to be of stone, from the lines drawn obliquely to represent the perspective, which, however aukwardly done, was the first attempt of the kind I had observed in Indian sculpture. To whatever age this is to be attributed, we here find an escalade, defence by slanking towers, and their use, and the mode of attack and defence, illustrated by a Hindu sculpture.

When mention of these sculptures was first made to me at Ongole, it was hinted, that they contained marks of the worship of the Jains; \* but nothing of the kind appeared here. Without my mentioning the subject, I found that the same idea prevailed at this place, though my Brahmen could give me no good reason for it; and the account, which he received of the Jains, was very obscure: it was said, that they were formerly a powerful people, who contested the sway with the Brahmens.

On the lower part of the fame flab, and divided by a border containing figures of animals, were sculptured four figures of men sitting on chairs, and reclining, in attitudes different from each other, but all fignificant of a graceful negligence, indicating careless ease. One of them had his hand disposed on his breast, or in the chain which hung from it; another seemed to incline to one side, leaning against his chair, with one leg and thigh thrown over the other; and wanted nothing but a hooka to be placed in his hand, to give a complete idea of that languid attitude, in which we sometimes see an Indian throw himself, when satiated with these fragrant steams that overpower and gratify the sense. The chairs were circular, of a cylindrical form, and the back forming half a circle. A number of small lines divided them longitudinally, and seemed to represent cane work. The thrones or

A figure crofs legged has been fince discovered on some of the sculptures found there. C. M.

feats, represented in other Hindu sculptures, I had never observed before with backs; so that these seem to have another origin. The figures were too small to admit of distinguishing ornaments: the head dress was round, and not raised so high as those commonly represented on stones.

On another stone, but uncertain, whether belonging to these, was represented the remains of a God, or chief, sitting on a chair, and sanned by a semale, holding a choury. It is well known, that Hindu princes, sitting in state, were generally thus attended. So Crishna Raja is described, sitting on his royal throne, attended by two beautiful women, fanning him according to royal usage.

A HORSE, on another stone, is preceded by a human figure in a flying attitude, remarkable for its graceful outline; but the upper part of both is destroyed.

The legs of all the figures are more flender and gracefully disposed, than I have observed in any other Hindu figures; nor have they that drapery, which usually marks with rigid observance their costume. Another remarkable trait is the vast number of rings about the feet, resembling those worn by the lombadi or benjari women. None are observed on the toes or arms.

AFTER all, though this differ widely from the carvings observed on Hindu buildings, it would be rash to draw any conclusion, until an opportunity offers of observing more sculptures collected. A correct drawing of the complete slab, over the temple of Mahadéo, would be extremely desirable, and a complete section across the area of Dipal-dinna would perhaps exhibit more remains.

I was disappointed in not finding any thing like the figure of Jain-



# ANCIENT

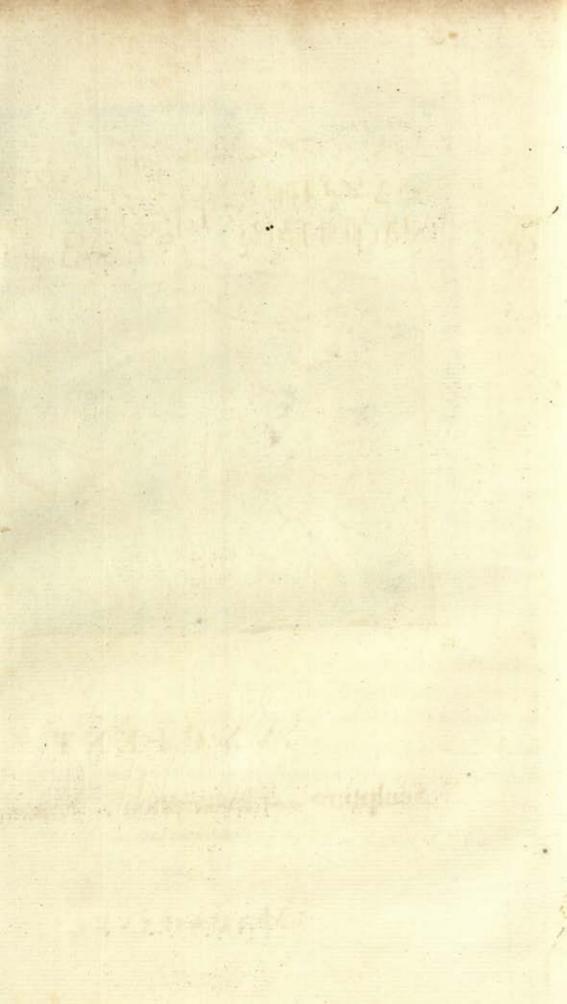
Sculpture and Inscription at Sravangoody

[characters unknown]

near

MADAGASEE

October 1801



# PARTICULARS OF THE JAINS. EXTRACTED FROM A JOURNAL,

# DOCTOR F. BUCHANAN,

DURING TRAVELS IN CANARA.

HAVING invited PANDITA ACHARYA SWAMI, the Guru of the Jains, to vifit me, he came, attended by his most intelligent disciples, and gave me the following account of his sect.

THE proper name of the feet is Arhata; and they acknowledge, that they are one of the twenty-one fects, confidered as heretical by SAN-CARA ACHARYA. Like other Hindus, they are divided into Brahmen, Chatriya, Vaisya and Súdra. These casts cannot intermarry together; but a man of high cast is not disgraced by having connection with a woman of a lower one, provided she be of pure descent. A similar indulgence is not granted to the women of the higher casts. The men are allowed a plurality of wives, which they must marry before the age of puberty. The man and woman must not be of the same samily in the male line. Widows ought not to burn themselves with the bodies of their husbands; but those of the Súdra only are permitted to take a fecond husband. The Brahmens and Vaifyas in Tulava, and every cast above the Gháts, consider their own children as their heirs; but the Rájás and Súdras of Tulava, being possessor of land, follow the custom of the country; and their heirs are their fifter's children. Not even the Súdras are permitted to eat animal food, or to drink spirituous liquors: nor is it lawful for any one to kill an animal, except for the Chatriya when engaged in war. They all burn the dead.

The Arhatas reject the Védas and eighteen Puránis of the other Bráhmens, as heretical. They fay, that these books were composed by a Rishi named Vyasa, whom the other Bráhmens consider as an incarnation of the deity. The chief book, of which the doctrine is followed by the Árhatas, is named Yóga. It is written in the Sanscrit language, and character of Carnáta; and is explained by twenty four Puránas, all written by its author, who was named Vrishabha Sayana, a Rishi, who had obtained a knowledge of divine things, by long continued prayer. They admit, that all Bráhmens are by birth of equal rank; and are willing to show their books to the Bráhmens who heretically follow the doctrine of the Védas; but they will not allow any of the lower classes to look upon their sacred writings:

THE Gods of the Arhatas are the spirits of perfect men; who, owing to their great virtue, have become exempt from all change and missortune; and are all of equal rank and power. They are called collectively by various titles, such as Jinéswara, Arhat, and Sidd'ha; but each is called by a particular name, or names; for many of them have above a thousand appellations. These Sidd'has reside in a heaven, called Mócsha; and it is by their worship only, that suture happiness can be obtained. The first person, who by his virtue arrived at this elevated station, was ADIPARAMESWARA; and by worshipping him, the favour of all the Sidd'has may be procured. He has a thousand and eight names, the most common of which, amongst his adorers, is Jinéswara, or God.

THE fervants of the Sidd'has are Dévatás, or the spirits of good and great men; who, although not so perfect as to obtain an exemption from all suture change, yet live in an inferiour heaven, called Swarga; where, for a certain length of time, they enjoy great power and happiness;

according to the merit of the good works, which they performed, when living as men. Swarga is fituated higher in the regions of the air than the summit of Mount Meru, and its inhabitants ought to be worshipped by men, as they possess the power of bestowing temporal blessings. Concerning the great Gods of the Vėdas, the Árhatas fay, that VISHNU was Rájá, who having performed certain good works, was again born a Rája, of the name of Ráma. At first he was a great hero, and conqueror; but afterwards he retired from the pleasures of the world, became a Sannyásí, and lived a life of fuch purity, that he victained Sidd'hi (beatitude) under the name of Jina, which he had affumed, when he gave up his earthly kingdom.\* Ma-HESWARA or SIVA, and BRAHMA, are at present, Dévatas; but are inferiour in rank and power to INDRA, who is the chief of all the happy beings, that refide in Swarga. In this heaven are fixteen stages, containing so many different kinds of Dévatás, who live in a degree of bliss in proportion to their elevation. An inferiour kind of Dévatás, called Vyantaras, live on mount Méru; but their power and happiness are greatly inferiour to those of the Dévatas of Swarga. The various Sactis, are Vyantaras living on Mahá-Méru; but they are of a malevolent disposition.

Below Mahá-Méru, and the earth, is fituated Bhuvana, or hell; the refidence of the spirits of wicked men. These are called Racshas and Asuras, and are miserable, although endowed with great power. Bhu-

I am informed, that the Jains have a legendary history of RAMACHANDRA, which is termed Padmapurána, and is quite distinct from the Purâna received under that title by the orthodox Hindus. H. T. C.

vana is divided into ten places of punishment, which are severe in pro-

THE heavens and earth in general, including Mahá-Mêru and Bhuvana, are supposed never to have been created, and to be eternal; but this portion of the earth, Arya or Bharata, is liable to destruction and renovation. It is destroyed by a poisonous wind, that kills every thing; after which a shower of fire consumes the whole Cánda. It is again restored by a shower of butter, followed by one of milk, and that by one of the juice of fugar-cane. Men and animals then come from the other five Cándas of the earth, and inhabit the new Arya or Bharatacánda. The books of the Árhatas mention many Dwipas, furrounding Mahá-Méru, of which the one we inhabit is called Jambúdwipa. People from this can go as far as Manushóttara, a mountain in the middle of Pushcara-Dwipa, between which and Jambu-Dwipa are two seas, and an island named Dhatuci. Jambu-Dwipa is divided into fix Cándas, and not into nine, as is done by the Brahmens who follow the Védas. The inhabitants of five of the Cándas are called Mléch'has or barbarians. Arya or Bharatacánda is divided into fifty-fix Désas or provinces, \* as is done by the other Brahmens. As Arabia and China form two of these Désas, Arya would seem to include all the world, that was tolerably known to the Arhatas, who composed the books of this feet.

EVERY animal, from INDRA down to the meanest infect, or the most wicked Racsha, has existed from all eternity; and will continue to undergo changes, from a higher to a lower rank, or from a lower to a higher dignity, according to the nature of its actions, till at length it

Perhaps the 56 Antara-devipas are meant H. T. C.

becomes perfect, and obtains a place among the Sidd'has. A Súdra must be born as one of the three higher casts, before he can hope for this exemption from evil; but, in order to become a Bráhmen, it is not necessary, that he should be purified by being born of a cow, as many of the followers of the Védas pretend. The Árbatas however allow, that will an animal of the cow kind is equally finful with the murder of one of the human species. The death of any other animal, although a crime, is not of so atrocious a nature. The Árhatas, of course, never offer sacrifice, but worship the Gods and Dévatás, by prayer, and offerings of slowers, fruits, and incense.

THE Arhatas are frequently confounded, by the Brahmens who follow the Védas, with the Saugatas, or worshippers of Budd'ha; but this arises from the pride of ignorance. So far are the Arhatas from acknowledging Budd'ha as their teacher, that they do not think he is now even a Dévatá; but allege, that he is undergoing various low metamorphoses, as a punishment for his errours. Their doctrine, however, it must be observed, has in many points a strong resemblance to that taught by the followers of Budd'ha.

The Jain Bráhmens are all Vaidya, and dress like the others, who follow the doctrine of the Védas. They have Gurus, who are all Sannyásís; that is to say, have relinquished the world, and all carnal pleasures. These Gurus, in general, acknowledge, as their superiour, the one who lives at Sravana Belligola, near Seringapatam: but Pandita Acharya Swami pretends to be at least his equal. In each Matha there is only one Sannyásí; who, when he is near death, gives the proper instruction to one of his followers, who must relinquish the world and

<sup>\*</sup> Within four miles of Chinray-pattan.

all its enjoyments, except perhaps an indulgence in the pride of devotion. The office is not confined to the Brahmens; none but the Súdras are excluded from this highest of dignities; for all the Sannyásás, after death, are supposed to become Sidd'ha; and of course do not worship the Dévatás, who are greatly their inferiours. The Sannyásis never shave, but pull out all their hair by the roots. They never wear a turban; and are allowed to eat and drink but once a day. In fact, they are very abstemious; and the old SWAMI, who, from his infirmities, expected foon to become a God, mortified the flesh exceedingly. The Gurus have the power of fining all their followers, who cheat or lie, or who commit murder and adultery. The fines are given to the God; that is, to his priest. These Gurus excommunicate all those who eat animal food, or fornicate with persons who are not Jains; which, of course, are looked upon as greater crimes than those that are only punished by fine. The married Brahmens act as priests for the Gods, and as Purchitas for the inferiour casts. The follower may choose any Brahmen he pleases, for his Purohita. The Brahmen receives alms; and reads prayers on the occasion; as he does also at the marriages, funerals, and commemorations of the deceased ancestors of his followers.

THE Jains are spread all over India; but at present, are not numerous any where, except in Tulava. They alledge, that sormerly they extended over the whole of Arya or Bharatacanda; and that all those, who had any just pretensions to be of Cshatriya descent, were of their sect. It no doubt appears clear, that, in the south of India, many powerful princes were their sollowers, till the time of Ramanuja Acharya. They say, that, sormerly they were very numerous in Arabia; but that, about 2500 years ago, a terrible persecution took place, at Mecca, by

orders of a king named Parswa Bhattaraca, which forced great numbers to come to this country. Their ideas of history and chronology, however, as usual with Brahmens, are so very confused, that they suppose Parswa Bhattaraca to have been the sounder of the Muhammedan saith. None of them have the smallest trace of the Arabian seatures; but are in every respect entirely Hindus.

THERE are two kinds of temples among the Jains; one covered with a roof, and called Basti; and the other an open area surounded by a wall, and called Bettu, which fignifies a hill. The temples of SIVA and VISHNU, the great Gods of the followers of the Védas, are here called Gadies. In the Bastis are here worshipped the images of twenty-four persons, who have obtained Sidd'hi, or become Gods. These images are all naked, and exactly of the same form; but they are called by different names, according to the person, whom they are meant to reprefent. These idols are in the form of a man sitting. In the temples called Bettu, the only image of a Sidd'ha is that of a person colled Góma-TA RAJA, who, while on earth, was a powerful king. The images of GÓMATA RAJA are naked, and always of a coloffal fize. That, which is at Kurcul, \* is made of one piece of granite, the extreme dimensions. of which, above ground, are 38 feet in height, 101 feet in breadth, and 10 feet in thickness. How much is below ground, I cannot say; but it is probably funk at least three feet, as it has no lateral support. According to an infcription on the stone itself, it was made by Vira-PANDIA, fon of BHAIRAVENDRA, 369 years ago.

THE Jains deny the creation of man, as well as of the world. They allow, that BRAHMA was the fon of a king, and that he is a Dévatá;

<sup>.</sup> Corcal. RENNEL's map, (U. 1.)

and the favourite fervant of Gómata Ráya: but they altogether deny his creative power. Brahmá, and the other Dévatás, are worshipped, as I have said, by the Jains, who have not become Sannyásis; but all the images of these supposed beings, that are to be found in the Bastis, or Bettus, are represented in a posture of adoration, worshipping the Sidd'ha to whom the temple is dedicated. These images, however, of the Dévatás, are not objects of worship, but merely ornamental; and the deity has not been induced to reside in the stone by the powerful invocations of a Bráhmen. When a Jain wishes to adore one of these inferiour spirits, he goes to the temple dedicated to its peculiar worship. Ráma is never represented by an idol in a Basti, although he is acknowledged to be a Sidd'ha: and, although Ganes and Hanumán are acknowledged to be Dévatás, these savourites of the followers of the Védas have no images in the temples of the Árhatas.

THE Jains have no tradition of a great deluge, that destroyed a large proportion of the inhabitants of the earth; but they believe, that occasionally most of the people of Arya are destroyed by a shower of fire. Some have always escaped to the other Cándas, and have returned to repeople their native country, after it has been renovated by showers of butter, milk, and the juice of the sugar-cane. The accounts of the world, and the various changes, which the Jains suppose it to have undergone, are contained in a book called Loca Swarupa. An account of GOMATA-RAYA is given in a book called Gómata Ráya Cheritra. The Camunda Ráya Purána contains a history of the twenty-four Siddhas worshipped in the Bastis.

### OBSERVATIONS ON THE SECT OF JAINS,

### BY H. T. COLEBROOKE, Efq.

THE information, collected by Major Mackenzie, concerning a religious feet hitherto so imperfectly known, as that of the Jainas, and which has been even confounded with one more numerous and more widely spread (the feet of Budd'ha), may surnish the ground of surther researches, from which an exact knowledge of the tenets and practice of a very remarkable order of people, may be ultimately expected. What Major Mackenzie has communicated to the society, comes from a most authentick source; the declarations of two principal priests of the Jainas themselves. It is supported by similar information, procured from a like source by Dr. F. Buchanan, during his journey in Mysore, in the year sollowing the reduction of Seringapatam. Having the permission of Dr. Buchanan, to use the extracts, which I had his leave to make from the journal kept by him during that journey; I have inserted, in the preceding article, the information received by him from priests of the Jaina sect.

I AM enabled to corroborate both statements, from conversation with Jaina priests, and from books, in my possession, written by authors of the Jaina persuasion. Some of those volumes were procured for me at Benares; others were obtained from the present Jagar-Set at Morshedabad, who, having changed his religion, to adopt the worship of Vishnu, forwarded to me, at my request, such books of his former faith, as were yet within his reach.

It appears, from the concurrent result of all the inquiries which have been made, that the Jainas constitute a sect of Hindus, differing, indeed, from the rest, in some very important tenets; but following, in other respects, a similar practice, and maintaining like opinions and observances.

THE effential character of the Hindu institutions is the distribution of the people into four great tribes. This is confidered by themselves to be the marked point, which separates them from Mlech'has or Barbarians. The Jainas, it is found, admit the same division into four tribes, and perform like religious ceremonies, termed Sanfcáras, from the birth of a male to his marriage. They observe fimilar fasts, and practise, still more strictly, the received maxims for refraining from injury to any sentient being. They appear to recognife, as fubordinate deities, fome, if not all, of the gods of the prevailing fects; but do not worship, in particular, the five principal Gods of those fects; or any one of them by preference; nor address prayers, or perform sacrifice, to the sun, or to fire: and they differ from the rest of the Hindus, in assigning the highest place to certain deified faints, who, according to their creed, have fuccessively become superior Gods. Another point, in which they materially difagree, is the rejection of the Védas, the divine authority of which they deny; condemning, at the same time, the practice of sacrifices, and the other ceremonies, which the followers of the Védas perform, to obtain specifick promised consequences, in this world, or in the next.

In this respect, the Jainas resemble the Baudd'has or Saugatas, who equally deny the divine authority of the Védas; and who similarly worship certain preeminent saints, admitting likewise, as subordinate dei-

ties, nearly the whole pantheon of the orthodox Hindus. They differ, indeed, in regard to the history of the personages, whom they have deified; and it may be hence concluded, that they have had distinct sounders; but the original notion seems to have been the same: In fact, this remarkable tenet, from which the Jainas and Baudd'has derive their most conspicuous peculiarities, is not entirely unknown to the orthodox Hindus. The followers of the Védas, according to the theology, which is explained in the Védanta, considering the human soul as a portion of the divine and universal mind, believe, that it is capable of persect union with the divine essence: and the writers on the Védanta not only affirm, that this union and identity are attained through a knowledge of God, as by them taught; but have hinted, that by such means the particular soul becomes God, even to the actual attainment of supremacy. \*\*

So far the followers of the Védas do not virtually disagree with the Jainas and Baudd'has. But they have not, like those sects, framed a mythology upon the supposed history of the persons, who have successively attained divinity; nor have they taken these for the objects of national worship. All three sects agree in their belief of transmigration. But the Jainas are distinguished from the rest by their admission of no opinions, as they themselves assirm, which are not sounded on perception, or on proof drawn from that, or from testimony.

It does not, however, appear, that they really withhold belief from pretended revelations: and the doctrines, which characterise the sect, are not confined to a single tenet; but form an assemblage of mytholo-

<sup>\*</sup> Vribad aranyaca Upanishad.

gical and metaphyfical ideas found among other fects, joined to many visionary and fantastick notions of their own.

THEIR belief in the eternity of matter, and perpetuity of the world, is common to the Sánc'hya philosophy, from which it was perhaps immediately taken. Their description of the world has much analogy to that which is given in the Puránas, or Indian theogonies: but the scheme has been rendered still more extravagant. Their precaution to avoid

injuring any being is a practice inculcated in the orthodox religion, but which has been carried by them to a ludicrous extreme.

In their notions of the foul, and of its union with body, and of retribution for good and evil, some analogy is likewise observable. XThe Jainas conceive the foul ( Jiva ) to have been eternally united to a very fubtil material body, or rather to two fuch bodies, one of which is invariable, and confilts (if I rightly apprehend their metaphyfical notions) of the powers of the mind; the other is variable, and is composed of its passions and affections: (this, at least, is what I understand them to mean by the Taijafa and Carmana Sariras). The foul, fo embodied, becomes, in its fuccessive transmigrations, united with a grosser body denominated Audárica, which retains a definite form, as man and other mundane beings; or it is joined with a purer essence, varying in its appearance at pleasure, as the Gods and genii. This last is termed Vaicari-They distinguish a fifth fort of body, under the name of Ahárica, which they explain as a minute form, iffuing from the head of a medita. tive fage, to consult an omniscient saint; and returning with the defired information to the person whence that form issued, or rather from which

<sup>\*</sup> Jaina Priests usually bear a broom adapted to sweep insects out of their way; lest the

it was elongated; for they suppose the communication not to have been interrupted.

The foul is never completely separated from matter, until it obtain a final release from corporeal sufferance, by deification, through a perfect disengagement from good and evil, in the person of a beatisted saint. Intermediately, it receives retribution for the benefits or injuries ascribable to it in its actual or precedent state, according to a strict principle of retaliation, receiving pleasure or pain from the same individual, who, in a present or former state, was either benefited or aggrieved.

MAJOR MACKENZIE's information confirms that, which I had also received, concerning the distribution of these sectaries into clergy and laity. In Hindustan the Jainas are usually called Syauras; but distinguish themselves into Srávacas and Yatis. The laity (termed Srávaca) includes perfons of various tribes, as indeed is the cafe with Hindus of other fects: but, on this fide of India, the Jainas are mostly of the Vaisya class \*. The orthodox Hindus have a secular, as well as a regular, clergy: a Bráhmana, following the practice of officiating at the ceremonies of his religion, without quitting the order of a householder, may be confidered as belonging to the secular clergy; one, who follows a worldly profession, (that of husbandry for example,) appertains to the laity; and so do people of other tribes: but persons, who have passed into the feveral orders of devotion, may be reckoned to constitute the regular clergy. The Jainas have, in like manner, priests who have entered into an order of devotion; and also employ Brahmanas at their ceremonies; and for want of Brahmanas of their own faith, they even have re-

<sup>\*</sup> I understand that their Vaisya class includes eighty-four tribes: of whom the most common are those denominated Ofwal, Azarwal, Pariwar, and C'handewal.

ficiently explained by Major Mackenzie and Dr. Buchanan; I shall, however, add, for the sake of a subsequent remark, that the Jainas apply the terms Yati and Sramana, (in Pracrit and Hindi written Samana,) to a person who has devoted himself to religious contemplation and austerity; and the sect of Budd'ha uses the word Sramana for the same meaning. It cannot be doubted, that the Sommonacodom of Siam is merely a corruption of the words Sramana Gautama, the holy Gautama or Budd'ha.

HAVING been here led to a comparison of the Indian sects which follow the precepts of the Vėdas, with those which reject their authority, I judge it necessary to notice an opinion, which has been advanted, on the relative antiquity of those religions; and especially the afferted priority of the Baudd'has before the Bráhmanas.

In the first place, it may be proper to remark, that the earliest accounts of India, by the Greeks who visited the country, describe its in habitants as distributed into separate tribes. † Consequently, a sect which, like the modern Baudd'has, has no distinction of cast, could not have been then the most prevalent in India.

It is indeed possible, that, the followers of Budd'ha may, like the Jainas, have retained the distribution into four tribes, so long as they continued in Hindustan. But in that case, they must have been a sect of

<sup>\*</sup> See As. Res. vol. 7. p. 415.

<sup>†</sup> Seven tribes are enumerated: but it is not difficult to reconcile the diffinctions which are flated by Arrian and Strabo, with the prefent diffribution into four classes.

Hindus; and the question, which is most ancient, the Baihmana or the Bauddha, becomes a solecism.

If it be admitted, that the Baudd'has are originally a sect of Hindus, at may be next questioned whether that, or any of the religious systems now established, be the most ancient. I have on a former occasion, and indicated the notions, which I entertain on this point. According to the hypothesis, which I then hinted, the earliest Indian sect, of which we have any present distinct knowledge, is that of the followers of the practical Védas, who worshipped the sun, sire, and the elements; and who believed the efficacy of sacrisses, for the accomplishment of present and of suture purposes. It may be supposed, that the refined doctrine of the Védantis, or followers of the theological and argumentative part of the Védas, is of later date: and it does not seem improbable, that the sects of Jina and of Budd'ha are still more modern. But I apprehend, that the Vaishnavas, meaning particularly the worshippers of Rama' and of Crishna, may be subsequent to those sects, and that the Saivas also, are of more recent date.

<sup>\*</sup> As. Res. vol. 8, p. 474.

t In explanatio of a remark contained in a former effay (As. Res. vol. 8. p. 475), I take this occasion of adding, that the mere mention of RAMA or of CRISHNA, in a passage of the Vidar, without any indication of peculiar reverence, would not authorize a presumption against the genuineness of that passage, on my hypothesis; nor, admitting its authenticity, furnish an argument against that system. I suppose both heroes to have been known characters in ancient fabulous history; but conjecture, that, on the same basis, new sables have been constructed, elevating those personage: to the rank of Gods. On this supposition, the simple mention of them in genuine portions of the Vidas, particularly in that part of it which is entitled Brūhmana, would not appear surprising. Accordingly, CRISHNA, son of DEVACI, is actually named in the

I STATE it as an hypothesis, because I am not, at present, able to support the whole of this position, on grounds, which may appear quite satisfactory to others; nor by evidence, which may entirely convince them. Some arguments will, however, be advanced, to show, that the supposition is not gratuitous.

The long fought history of Cashmir, which, in the original Sanscrites was presented to the emperor Acber, as related by Abulfazi in the Ayin Acberi,\* and of which a Persian translation exists, more amples than Abulfazi's brief abstract, has been at length recovered in the original language.† A fuller account of this book will be hereaster submitted to the society: the present occasion for the mention of it, is as passage which was cited by Dr. Buchanan,‡ from the English translation of the Ayin Acberi, for an import which is not supported by the Persian or Sanscrit text.

THE author, after briefly noticing the colony established in Cáshmír by Casyapa, and hinting a succession of kings to the time of the Curus and Pándavas, opens his detailed history, and list of princes, with Gónana da contemporary of Yud'hisht'hira. He describes Asóca (whowas 12th in succession from Gónanda,) and his son Jalóca, and grandson Damódara, as devout worshippers of Siva; and Jalóca, in particular, as a conqueror of the Mléch'has, or barbarians. Damódara, according to this history, was succeeded by three kings of the race.

Ch' bandogya Upanishad (towards the close of the 3d. Chapter), as having received theological information from Ghóra a descendant of Angiras. This passage, which had escaped my notice, was indicated to me by Mr. Speke, from the Persian translation of the Upanishad.

<sup>\*</sup> Vol. 2. p. 178.

the copy, which I posses, belonged to a Brahmana who died some months ago (1805) in Calcutta. I obtained it from his heirs.

<sup>‡</sup> As. Res. Vol. VI. p. 165,

of Turushca; and they were followed by a Bód'bisatwa, who wrested the empire from them by the aid of Śacyasinha, and introduced the religion of Budd'ha into Cáshmír. He reigned a hundred years; and the next sovereign was Abhimanya, who destroyed the Baudd'has, and re-established the doctrines of the Nilapurana. This account is so far from proving the priority of the Baudd'has, that it directly avers the contrary.

FROM the legendary tales concerning the last Budd'ha, current in all the countries, in which his fect now flourishes; and upon the authority of a life of Budd'ha in the Sanscrit language, under the title of Lalita purána, which was procured by Major Knox during his publick mission in Népál, it can be affirmed, that the story of Gautama Budd'ha has been engrasted on the heroick history of the lunar and solar races, received by the orthodox Hindus: an evident sign, that his fect is subsequent to that, in which this sabulous history is original.

The same remark is applicable to the Jainas, with whom the legendary story of their saints also seems to be engrafted on the Pauranic tales of the orthodox sect. Sufficient indication of this will appear, in the passages, which will be subsequently cited from the writings of the Jainas.

Considerable weight might be allowed to an argument deduced from the aggravated extravagance of the fictions admitted by the fects of Jina and of Budd'ha. The mythology of the orthodox Hindus, their present chronology adapted to astronomical periods, their legendary tales, their mystical allegories, are abundantly extravagant. But

Relation d'un voyage. Tachard. Laloubere, Royaume de Siam,

the Jainas and Baudd'has surpass them in monstrous exaggerations of the same kind. In this rivalship of absurd siction, it would not be unreasonable to pronounce that to be most modern, which has outgone the rest.

THE greater antiquity of the religion of the Védas is also rendered probable, from the prevalence of a similar worship of the sun and of sire in ancient Persia. Nothing forbids the supposition, that a religious worship, which was there established in times of antiquity, may have also existed from a remote period in the country between the Ganges and the Indus.

HERE, as well as in the fequel of the passage, the priests of a religion consonant to the Védas, are well described: and what is said, is suitable

<sup>\*</sup> Kal των Βραχμάνων ει δή σοφιζαί τοις Ίνδοις είσιν. κ. 1. λ. lib. 6.

<sup>†</sup> Νευέμηνδαι οἱ πάνθες Γνδοὶ εἰς ἐπθὰ μάλιςα γενεάς: ἐν μὲν ἀνθοῖσον οὶ ΣοΦιςαὶ ἐισιρ. \* Τ. λ. Arrian in Indicis.

to them; but to no other sect, which is known to have at any time prevailed in India.

A SIMILAR description is more succincily given by STRABO. 'It is faid, that the Indian multitude is divided into seven classes; and that the philosophers are first in rank, but sewest in number. They are employed, respectively, for private benefit, by those who are facrificing or worshipping, &c.' \*

In another place he states, on the authority of MEGASTHENES, 'two classes of philosophers or priests; the Brachmanes and Germanes: but the Brachmanes are best esteemed, because they are most consistent in their doctrine.' † The author then proceeds to describe their manners and opinions: the whole passage is highly deserving of attention, and will be found, on confideration, to be more fuitable to the orthodox Hindus, than to the Bauda has or Jainas: particularly towards the close of his account of the Brachmanes, where he fays, ' In many things they agree with the Greeks; for they affirm, that the world was produced and is perishable; and that it is spherical: that God, governing it as well as framing it, pervades the whole: that the principles of all things ' are various; but water is the principle of the construction of the world: that, besides the four elements, there is a fifth nature, whence heaven and the flars: that the earth is placed in the centre of all. Such and ' many other things are affirmed of reproduction, and of the foul. Like · PLATO, they devife fables concerning the immortality of the foul, and

Φησί δή τὸ τῶν Ἰνὸῶν πληθΘ εἰς ἐπὶὰ μέρη διηρησθαι, καὶ πρώθες μέν τες Φιλοσό.
 Φους εἶναι κ. τ. λ. lib. 15-

<sup>† &</sup>quot;Αλλην δὲ διάιρεσιν ποιεῖται περί των Φιλοσόφων, δύο γενη Φασκων, ὧν τές μέν Βραχμάνας καλεΐ, τες δὲ Γερμώνας, κ. τ. λ. lib. 15.

- the judgment in the infernal regions; and other fimilar notions,
- · These things are said of the Brachmanes.'

STRABO notices likewise another order of people, opposed to the Brachmanes, and called Pramnæ: he characterises them as 'contentious cavillers, who ridiculed the Brachmanes for their study of physiology and astronomy.'\*

PHILOSTRATUS, in the life of APOLLONIES, speaks of the Brackmanes as worshipping the sun. By day they pray to the sun respecting the seasons, which he governs, that he would send them in due time; and that India might thrive: and, in the evening, they intreat the solar ray not to be impatient of night, and to remain as conducted from them.'+

PLINY and SOLINUS I also describe the Gymnosophists contemplating the sun: and Hierocles, as cited by Stephanus of Byzantium, the expressly declares the Brachmanes to be particularly devoted to the sun.

This worship, which distinguishes the orthodox Hindus, does not feem to have been at any time practised by the rival sects of Jina and Budd'ha.

<sup>\*</sup> ΦιλοσόΦοις τὰ τοῖς Βραχμᾶσιν ἀντιδιαφενταὶ Πράμνας ἐριζικόυ; Ίινας καὶ ἐλεγκτικούς. κ. τ. λ. lib. 15.

<sup>†</sup> Me9 ทุ่นธ์กลง นอง ออง ทั้งเอง อังเอ๋อ โล๊ง ล่อูลง, พ. ร. น. lib. 3. cap. 4.

<sup>¶</sup> Pliny. lib. 7. c. 2. Solin. 1. 52.

<sup>‡</sup> Το Βραχμάνων Φύλον ανδράν ΦιλοσοΦων, καλ θεοῖς Φίλων, κλία δὲ μάλιςα καθωσιωμένωνς. Step. de Urbibus; ad vocem Brachmanes

PORPHYRIUS, treating of a class of religious men, among the Indians, whom the Greeks were accustomed to call Gymnosophists, mentions two orders of them; one the Brachmanes, the other the Samanæans: the Brachmanes receive religious knowledge, like the priesthood, in right of birth; but the Samanæans are select, and consist of persons choosing to prosecute divine studies. He adds, on the authority of Bardesanes, that all the Brachmanes are of one race; for they are all descended from one father and one mother. But the Samanæans are not of their race; being selected from the whole nation of Indians, as beforementioned. The Brachman is subject to no domination; and contributes nothing to others.\*

In this paffage, the Bráhman, as an hereditary order of priesthood, is contrasted with another religious order; to which persons of various tribes were admissible: and the Samanæans, who are obviously the same with the Germanes of Strabo, were doubtless Sannyásis; but may have belonged to any of the sects of Hindus. The name seems to bear some affinity to the Sramanas, or asceticks of the Jainas and Baudd'has.

CLEMENS ALEXANDRINUS does indeed hint, that all the Bráhmanes revered their wife men as deities; † and in another place, he describes them as worshipping Hercules and Pan ‡. But the following passage from Clemens is most in point. Having said, that philosophy slourished anciently among the barbarians, and afterwards was introduced among the Greeks; he instances the prophets of the Egyptians, the Chaldees of the Affyrians; the Druids of the Gauls (Galatæ); the Saman-

<sup>·</sup> Porph. de Abstinentia, lib. 4.

<sup>+</sup> Kat μω δομεσιν, &c. Strom. lib. 1.

i Strom. lib. 3. &c.

eans of the Ballrians; the philosophers of the Celts; the Magi of the Persians; the Gymnosophists of the Indians: and proceeds thus. They are of two kinds, some called Sarmanes, other Brachmanes. Among the Sarmanes, those called Allobii\* neither inhabit towns, nor have houses; they are clad with the bark of trees, and eat acorns, and drink water with their hands. They know not marriage, nor procreation of children; like those now called Encraterai (chaste). There are likewise, among the Indians, persons obeying the precepts of BUTTA, whom they worship as a God on account of his extreme venerableness.'t

HERE, to my apprehension, the followers of Budd'ha are clearly distinguished from the Brachmanes and Sarmanes. ‡ The latter, called, Germanes by Strabo and Samanæans by Porphyrius, are the asceticks of a different religion; and may have belonged to the sect of Jina, or to another. The Brachmanes are apparently those, who are described by Philostratus and Hierocles, as worshipping the sun; and, by Strabo and by Arrian, as performing sacrifices for the common benefit of the nation, as well as for individuals. The religion, which they practifed, was so far conformable with the precepts of the Védas: and their doctrine and observances, their manners and opinions, as noticed by the authors above cited, agree with no other religious institutions known in India, but the orthodox sect. In short, the Brâhmanes are distinctly mentioned by Greek authors, as the first of the tribes or

<sup>·</sup> Same with the Hylobii of Strabo. C.

<sup>†</sup> Διτίου δὲ τετων ιὰ γενος, οἱ μεν Σαρμάναι, αυτών. οἱ δὲ Βραχμάναι καλύμενοι. καὶ τῶν Σαρμανῶν οἱ Αλλόβιοι προσαγορευόμενοι, ἔῖε πόλεις οἰκῶσιν, ἔτε ςέγας ἔχεσιν, δένδρων δὲ - ἀμΦιέννυνται Φλοιοῖ, καὶ ἀκρόδρυα σιτἕνται, καὶ ὕδωρ ταῖς χερσὶ πίνεσιν ἐγάμον, ἐ παιδοποιίαν ἴσασιν, ὥσπερ οἱ νῦν Εγκρατηῖαὶ καλώμενοι. ἐισὶ δὲ τῶν Ινδῶν οἱ τοῖς Βῶτῖα πειθήμενοι παραγίελμασιν ὅν δὶ ὑπερθολην σεμνότητ، ἐις Θεὸν τετιμήκασι. Strom, lib 1.

<sup>‡</sup> The passage has been interpreted differently; as if CLEMENS said, that the Allobii were those who worshipped Butta. (See Moreri Art, Sammančens). The text is ambiguous

castes, into which the Indian nation was then, as now, divided. They are expressly discriminated from the sect of Buddha by one ancient author, and from the sarmanes or Samanæans (asceticks of various tribes) by others. They are described by more than one authority, as worshipping the sun, as performing facrifices, and as denying the eternity of the world, and maintaining other senets incompatible with the supposition, that the sects of Buddha or Jina, could be meant: Their manners and doctrine, as described by these authors, are quite conformable with the notions and practice of the orthodox Hindus. It may therefore, be considently inferred, that the followers of the Védas flourished in India, when it was visited by the Greeks under Alexander: and continued to flourish from the time of Megasthenes, who described them in the fourth century before Christ, to that of Porphyrius, who speaks of them, on later authority, in the third century after Christ.

I have thus stated, as briefly as the nature of the subject permitted, a few of the sacts and reasons, by which the opinion, that the religion and institutions of the orthodox Hindus are more modern than the doctrines of Jina and of Budd'ha, may, as I think, be successfully resisted. I have not undertaken a formal resutation of it, and have, therefore, passed, unnoticed, objections which are founded on misapprehension.

those sects in particular places, with its subsequent persecution there by the worshippers of Siva or of Vishnu, is no proof of its general priority. Hindustan proper was the early seat of the Hindu religion; and the acknowledged cradle of both the sects in question. They were foreigners in the Peninsula of India; and admitting, as a fact, (what need

not, however, be conceded,) that the orthodox Hindus had not been previously settled in the Carnátaca and other districts, in which the Jinas or the Baudd'has have flourished, it cannot be thence concluded, that the followers of the Védas did not precede them in other provinces.

IT may be proper to add, that the establishment of particular sects. among the Hindus who acknowledge the Vėdas, does not affect the general question of relative antiquity. The special doctrines introducted by Sancara-Acharya, by Ramanuja, and by Madhaya Charya, and of course the origin of the sects which receive those doctrines, may be referred, with precision, to the periods when their authors lived: but the religion, in which they are sectaries, has undoubtedly a much earlier origin.

To revert to the immediate object of these observations; which is that of explaining and supporting the information communicated by MAJOR MACKENZIE: I shall, for that purpose, state the substance of a few passages from a work of great authority among the Jainas, entitled to Calpa-Sútia, and from a vocabulary of the Sanscrit language by an author of the Jaina sect.

THE Abhidhana Chintameni, a vocabulary of synonymous terms, by HEMACHANDRA ACHARYA, is divided into fix chapters (Cándas,) the contents of which are thus stated in the author's preface. 'The superior deities (Dévâd'hidévas) are noticed in the first chapter; the Gods (Dévas) in the second; men in the third; beings surnished with one or more senses in the fourth; the infernal regions in the fifth; and terms of general use in the fixth. 'The earth,' observes this author, 'water' fire, air and trees, have a single organ or sense (indriya); worms, ants, spiders and the like, have two, three or sour senses, elephants, pea-

eocks, fish, and other beings moving on the earth, in the sky, or in water, are furnished with five senses: and so are Gods and men and the inhabitants of hell.'

The first chapter begins with the synonyma of a Jina or deisied saint: among which the most common are Arhat, Jineswara, Tirthancara or Nithacara: others, viz. Jina, Sarvajnya, and Bhagavat, occur also in the dictionary of Amera as terms for a Jina or Budd'ha; but it is deserving of remark, that neither Budd'ha, nor Sugata, is stated by Hemachandra among these synonyma. In the subsequent chapter, however, on the subject of inferior Gods, after noticing the Gods of Hindu mythology, (Indra and the rest, including Brahma &c.,) he states the synonyma of a Budd'ha, Sugata, or Bód'hisatwa; and afterwards specifies seven such, viz. Vipasyi, Sic'hi, Viswanna, Cucuch'handa, Canchana, and Casyapa, \* expressly mentioning as the seventh Budd'ha, Sacyasinha, also named Servart'hasidd'ha, son of Sudd'hódana and Maya, a kinsman of the sun, from the race of Gauatama.

In the first chapter, after stating the general terms for a Jina or Arhat; the author proceeds to enumerate twenty-four Arhats, who have appeared in the present Avasarpini age; and afterwards observes, that excepting Munisuvrata and Nemi, who sprung from the race of Hari, the remaining twenty-two Jinas were born in the line of Icsh-wacu.† The fathers and mothers of the several Jinas are then men-

<sup>\*</sup> Two of these names occur in Captain MAHONY's and Mr. JOINVILLE's lists of five BUDD'HAS. As. Res. vol. 7. p. 32 and 414.

<sup>†</sup> I understand that the JAINAS have a mythological poem entitled Harivansa purana, different from the Harivansa of the orthodox. Their Ischwacu, likewise, is a different person 3, and the name is said to be a title of their first JINA, RISHABA DEVA.

tioned; their attendants; their standards or characteristicks; and the complexions with which they are figured or described.

The author next enumerates twenty-four Jinas who have appeared in the past Utsarpini period; and twenty-four others who will appear the future age: and, through the remainder of the first book, explains terms relative to the Jama religion.

THE names of the Jinas are specified in MAJOR MACKENZIE'S communication. Wherever those names agree with HEMACKANDRA'S enumeration, I have added no remark; but where a difference occurs I have noticed it,\* adding in the margin the name exhibited in the Sanscrit text.

I shall here subjoin the information gathered from Hemachandra's vocabulary, and from the Calpa Sútra and other authorities, relative to the Jinas belonging to the present period. They appear to be the deified saints, who are now worshipped by the Jaina sect. They are all figured in the same contemplative posture, with little variation in their appearance, besides a difference of complexion; but the several Jinas have distinguishing marks or characteristick signs, which are usually engraved on the pedestals of their images, to discriminate them.

i Rishabha, or Vrishabha, of the race of Icshwach, was fon of Nabhi by Marubeva: he is figured of a yellow or golden complexion; and has a bull for his characteristick. His stature, as is pretended, was 500 poles (dhanush); and the duration of his life, 84,00, 000 great years (pirva-varsha). According to the Calpa Sútra, as interpreted by the commentator, he was born at Cósalá or Ayód'hyá (whence he is named

<sup>\*</sup> See pages 260, 261, 602, 7 Add 18 A

Causalica), towards the latter part of the third age. He was the first king, sirst anchoret, and first saint; and is therefore entitled Prathama-ma-Raja, Prathama Bhicshacara, Prathama Jina and Prathama Tirthancara. At the time of his inauguration as king, his age was 20,00,000 years. He reigned 63,00,000 years; and then resigned his empire to his sons: and, having employed 1,00,000 years in passing through the several stages of austerity and sanctity, departed from this world on the summit of a mountain named Ashiapada. The date of his apotheosis was 3 years and 8½ months before the end of the third age, at the precise interval of one whole age before the deisication of the last Jina.

- 2. AJITA; was fon of JITASATRU by VIJAYA: of the same race with the first JINA, and represented as of the like complexion; with an elephant for his distinguishing mark. His stature was 450. poles; and his life extended to 72,00,000 great years. His deisscation took place, in the fourth age, when sifty lacshas of cross of oceans of years had elapsed out of the tenth cross of cross.\*
- 3. Sambhava was fon of Jitari by Séna; of the same race and complexion with the preceding; distinguished by a horse; his stature was 400 poles; he lived 60,00,000 years; and he was deisied 30 lacshas of crórs of Ságaras after the second Jina.
- 4. ABHINANDANA was son of SAMBARA by SIDD'HART'HA: he has an ape for his peculiar sign. His stature was 300 poles; and his life reached to 50,00,000 years. His apotheosis was later by 10 lacshas of crors of Sagaras than the foregoing.

The divisions of time have been noticed by Major MACKENZIE p. 257. and will be further explained.

- 5. Sumati was son of Mecha by Mangala: he has a curlew for his characteristick. His life endured 40,00,000 years, and his deification was nine lacshas of cross of Sagaras after the fourth Jina.
- 6. PADMAPRABHA was fon of SRÍD'HARA by Susima; of the same race with the preceding, but described of a red complexion. He has a lotos for his mark: and lived 80,00,000 years, being 200 poles in stature. He was deisied 90,000 crórs of Sagaras after the fifth Juna.
- 7. Suparswa was fon of Pratishta by Prithwi; of the fime line with the foregoing; but represented with a golden complexion; his fign is the figure called Swastica. He lived 20,00,000 years; and was deified 9,000 crors of Sagaras subsequent to the fixth Jina.
- 8. CHANDRAPRABHA was son of Mahasena by Lacshnana; of the same race with the last, but sigured with a fair complexion: his sign is the moon; his stature was 150 poles, and he lived 10,00,000 years: and his apotheosis took place 900 crors of Sagaras later than the seventh Jina.
- 9. Pushpadanta, also named Suvid'hi, was son of Supriva by Rama: of the same line with the preceding, and described of a similar complexion: his mark is a marine monster (Macara): his stature was 100 poles, and the duration of his life 200,000 years. He was deisied 90 crors of sagaras after the eighth Jina.
- 10 SÍTALA was fon of DRĬD'HARAT'HA by NANDA: of the fame race, and reprefented with a golden complexion; his characteristick

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his life 1,00,000 great years: his deification dates 9 crors of fágaras later than the preceding.

- 11. SREYAN (SREYAS) or SREYANSA, was fon of VISHNU by VISHNA; of the fame race, and with a fimilar complexion; having a rhinoceros for his fign. He was 80 poles in flature, and lived 84,00,000 common
  years. He apotheofis took place more than 100 fágaras of years before
  the close of the fourth age.
- 12. Vasurújya was son of Vasurújya by Jaya: of the same race, and represented with a red complexion, having a buffalo for his mark: and he was 70 poles high; lived 72,00,000 years; and was deisied later by 54 ságaras than the eleventh Jina.
- 13. VIMALA was fon of CRITAVARMAN by SYAMA; of the fame race; described of a golden complexion; having a boar for his characteristick; he was 60 poles high, lived 60,00,000 years, and was deisted 30 ságaras later than the twelsth Jina.
- 14. Ananta, also named Anantajit, was son of Sinhasena by Suyasa. He has a falcon for his sign; his stature was 50 poles; the duration of his life 30,00,000 years; and his apotheosis, 9 sagaras after the preceding.
- 15. D'HARMA was son of BHANU by SUVRATA; character ised by the thunderbolt: 45 poles in stature, and lived 10,00,000 years: deisied 4 sagaras later than the foregoing.

- 16. SANTI was fon of VISWASENA by ACHIRA, having an antelope for his fign; he was 40 poles high: lived 1,00,000 years; and was deified 2 sagaras subsequent to the last mentioned.\*
- 17. Cunt'hu was fon of Súra, by Srí; he has a goat for his mark; his height was 35 poles, and his life 95,000 years. His apotheofis is dated in the last palya of the fourth age.
- 18. ARA was fon of Sudarsana by Devi: characteriled by the figure called Nandavarta: his stature was 30 poles; his life, 84,000



years; and his deification, 1000 crórs of years before the next Jina.

- 19. MALLI was son of Cumbha by Prabhavali; of the same race with the preceding; and represented of a blue complexion; having a jar for his characteristick: he was 25 poles high, and lived 55,000 years; and was deisted 65,84,000 years before the close of the fourth age.
- 20. MUNISUVRATA, also named SUVRATA, or MUNI, was son of SUMITRA by PADMA; sprung from the race called HARIVANSA; represented with a black complexion; having a tortoise for his sign: his

<sup>.</sup> The life of this Jina is the subject of a separate work entitled Santipurena.

height was 20 poles, and his life extended to 30,000 years. His apo-

- 21. NAMI was fon of VIJAYA by VIPRA; of the race of ICSHWACU: figured with a golden complexion; having for his mark a blue water-lily (Nilotpala); his stature was 15 poles; his life 10,000 years: and his deification took place 5,84,000 years before the expiration of the fourth age.
- DRAJAYA by SIVA; of the line denominated HARIVANSA; described as of a black complexion, having a conch for his sign. According to the Calpa sútra, he was born at Sóriyaptira; and, when 300 years of age, entered on the practice of austerity. He employed 700 years in passing through the several stages of sanctity; and, having attained the age of 1000 years, departed from this world at Ujjinta, which is described as the peak of a mountain, the same, according to the commentator, with Giranára. The date of this event is 84,000 years bestore the close of the sourch age.
- by Vama or Bamadevi; of the race of Icshwacu; figured with a blue complexion; having a ferpent for his characteristick. The life of this celebrated Jina, who was perhaps the real founder of the sect, is the subject of a poem entitled Párswanátha charitra. According to the Calpa sútra, he was born at Bánárasí, † and commenced

I understand this to be a mountain situated in the west of India; and much visited by pilgrims,

<sup>+</sup> Bhelupura, in the suburbs of Benares, is esteemed holy; as the place of his nativity.

his series of religious austerities at thirty years of age; and having completed them in 70 years, and having consequently attained the age of 100 years, he died on Mount Samméya or Samét. \* This happened precisely 250 years before the apotheosis of the next Jina: being stated by the author of the Calpa Sútra at 1230 years before the date of that book.

24. VARD'HAMANA, also named VIRA, MANAVIRA &c. and furnamed Charama-tirt'hacrit, or last of the Jinas: emphatically, called BRAMANA or the saint. He is reckoned fon of Sidd'HART'HA by Trisalla. and is described of a golden complexion: having a lion for his standard,

THE subject of the Calpa-Sútra before cited is the life and institutions of this Jina. I shall here state an abstract of his history as there given, premising that the work, like other religious books of the Jainas, is composed in the Prácrit called Mágad'hí; and that the Sanscrit language is used by the Jainas, for translations, or for commentaries, on account of the great obscurity of the Prácrit tongue.

<sup>\*</sup> Samét sic'hara, called in Major Rennel's map Parsonaut, is situated among the hills between Bihar and Bengal. Its holiness is great in the estimation of the Jainas: and it is said to be visited by pilgrims from the remotest provinces of India.

their writings, and affigned by them to the female persons in their dramas, is formed from Sanserit. I once conjectured it to have been formerly the colloquial dialoct of the Sarasunta Brahmens (As. Res. vol. 7. p. 219.) But this conjecture has not been confirmed by further refearches. I believe it to be the same language with the Pali of Ceylan.

According to this authority, the last Tirthancara, quitting the state of a deity, and relinquishing the longevity of a god, to obtain immortality as a faint, was incarnate towards the close of the fourth age, (now past), when 75 years and 81 months of it remained. He was at first conceived by DETANANDA wife of RISHABHADATTA, a Bráhmana inhabiting Brahmanacundagrama, a city of Bharatavarsha in Jambudwipa. The conception was announced to her by dreams. INDRA \* or SACRA, who is the prefiding deity on the fouth of Meru, and abides in the first range of celeftial regions, called Saud'harma, being apprized of MAHA wir A's incarnation, prostrated himself, and worshipped the future saint; but reflecting that no great personage was ever born in an indigent and mendicant family, as that of a Brahmana, INDRA commanded his chief attendant HARINAIGUMESHI to remove the fetus from the womb of DEVANANDA to that of TRISALA, wife of SIDD'HART'HA, a prince of the race of ICSHWACU, and of the Casyapa family. This was accordingly executed; and the new conception was announced to TRI-BALA by dreams; which were expounded by foothfayers, as foreboding the birth of a future Jina. In due time, he was born; and his birth celebrated with great rejoicings.

His father gave him the name of Vard'hamana. But he is also known by two other names; Sramana and Mahavira. His father has similarly three appellations, Sidd'hart'ha, Sreyansa and Yasaswi; and his mother likewise has three titles, Trisala, Videhadinna

The Faines admit numerous INDRAS; but some of the attributes, stated in this place the Landau mythology.

and PRÍTICARINÍ. His paternal uncle was Suparswa, his elder brother Nandivard'hana, his fister (mother of Jamali) Sudarsana. His wife was Yasóda, by whom he had a daughter (who became wife of Jamali) named Anójja and Priyadarsana. His grand-daughter was called Seshavatí and Jasóvatí.

His father and mother died when he was 28 years of age; and he afterwards continued two years with his elder brother: After the second year, he renounced worldly pursuits, and departed, amidst the applauses of Gods and men, to practise austerities. The progress of his devout exercises, and of his attainment of divine knowledge, is related at great length. Finally, he became an Arhat or Jina, being worthy of universal adoration, and having subdued all passions; being likewise omniscient and all seeing: and thus, at the age of 72 years, he became exempt from all pain for ever. This event is stated to have happened at the court of king Hastipalia in the city of Páwápurí or Pápápurít; and is dated 3 years and 8½ months before the close of the fourth age, (called Duc'hamá suchamá) in the great period named avasarpini. The author of the Calpasútra mentions, in several places, that, when he wrote, 980 years had elapsed since this apotheosis.‡ According to

<sup>.</sup> So the commentator expounds both terms.

<sup>+</sup> Near Rájagriha in Bihár. It is accordingly a place of fanctity. Other holy places, which have been mentioned to me, are Champápúri near Bhágalpúr, Chandrávati distant ten miles from Benares, and the ancient city Hastinápura in Hindustan: also Satrunjaya said to be situated in the west of India.

<sup>‡</sup> Samanassa Bhagaviiu Mahabirassa Jáva duhkha Hínassa Navabása Sayáin Bicwantáin dasamassaya Bása sayassa ayam Así imé sambach'hare Cálé gach'hai. Nine hundred years have passed since the adorable Mahabira became exempt from pain; and, of the tenth century of years, eighty are the time which is now elapsed.

four hundred years fince; and the Calpafitra appears therefore to have been composed about fifteen hundred years, ago \*. have a stoled slight

The feveral Jinus are deferibed as attended by numerous followers, distributed into classes, under a few chief disciples, entitled Ganad haras or Ganad hipas. The last Jinu had nine fuch classes of followers, under eleven disciples. Indrabnati, Agnibhati, Vayubhati, Vyacta, Sudharma, Mandicaputra, Mauryaputra, Acampita, Achalabhrata, Metarya, Prabhasa. Nine of these disciples died with Mahavira; and two of them, Indrabnati and Sudharma, survived him, and subsequently attained beatitude. The Calpasitiva adds, that all asceticks, or candidates for holiness, were pupils in succession from Sudharma, none of the others having lest successors. The author then proceeds to trace the succession from Sudharma to the different Sachas, or orders of priess, many of which appear still to exist. This enumeration disproves the list communicated to Major Mackenzie by the head priess of Belligola.

The most ancient copy in my possession, and the oldest one which I have seen, is dated in 1614 same to it is nearly 250 years old.

where explains the space of time denominated Ságara, or ocean. But I understand it to be an extravagant estimate of the time, which would elapse, before a vast cavity, silled with chopped hairs, could be emptied, at the rate of one piece of hair in a century: the time requisite to empty such a cavity, measured by a yojana every way, is 2 Palya; and that repeated ten côtis of côtis of times, \* is a Ságara.

EACH of the periods, abovementioned, is stated by HEMACHANDRA as comprizing fix Aras; the names and duration of which agree with the information communicated to MAJOR MACKENZIE: In the one, or the declining period, they pass from extreme felicity (ecantafuhc'ha) through intermediate gradations, to extreme misery (ecanta duhc'ha). In the other, or rifing period, they afcend, in the fame order, from mifery to felicity. During the three first ages of one period, mortals lived for one, two or three Palyas; their stature was one, two or three leagues (Gavyutis); and they sublisted on the fruit of miraculous trees; which yielded spontaneously food, apparel, ornaments, garlands, habitation, nurture, light, musical instruments and household utenfils. In the fourth age, men lived ten millions of years; and their stature was 500 poles (Dhanush): in the fifth age, the life of man is a hundred years; and the limit of his stature, seven cubits: in the fixth, he is reduced to fixteen years, and the height of one cubit. In the next period, this fuccession of ages is reverfed, and afterwards they recommence as before.

HERE we cannot but observe, that the Jainas are still more extravagant in their inventions, than the prevailing sects of Hindus, absurd as these are in their fables.

<sup>\* 1,</sup>cco.coo.cco.cco.cco palyas= one fágara or fagaropama.

Paramount and tributary princes, mentions the twelve Chacravartis and adds the patronymicks and origin of them, Bharata is surnamed Arshabhi or son of Rishabha; Maghavan is son of Vijaya; and Sanateumara, of Aswasena, Santi, Cunt'hu and Ara are the Jinas so named. Sagara is described as son of Sumitra; Súbhúma is entitled Cartavírya; Padma is said to be son of Padmóttara; Harishena of Hari; Jaya of Vijaya; Brahmadatta of Brahme; and all are declared to have sprung from the race of Icshwacu.

A list follows, which, like the preceding, agrees nearly with the information communicated to Major Mackenzie. It consists of nine persons, entitled Vásudévas, and Crishnas. Here Triprishta is mentioned with the patronymick Prajapatya; Dwiprishta is said to have sprung from Brahme: Swayambhú is expressly called a son of Rudra; and Purushottama, of Sóma or the moon. Purushasinha is surnamed Saivi, or son of Siva; Purushapundarica, is said to have sprung from Mahasiras. Datta is termed son of Agnisinha; Narayana has the patronymick Dasarathi (which belongs to Ramachandra): and Crishna is described as sprung from Vasudeva.

NINE other persons are next mentioned, under the designation of Sucla Balas viz. 1 Achala. 2 Vijaya. 3 Bhadra. 4 Suprabha. 5 Sudarfana. 6. Ánanda. 7 Nanda. 8 Padma. 9 Ráma.

THEY are followed by a list of nine foes of VISHNU: it corresponds one of the lists noticed by MAJOR MACKENZIE, VIZ. 1

ASWAGRIT, 2 TARACA, 3 MERACA, 4 MAD'HU, 5 NISUMBHA,

6 BALI, 7 PRAHLADA. 8 The king of Lancá (RAVANA). 9 The king of Magad'ha (JARASAND'HA).

It is observed, that, with the Jinas, these complete the number of fixty three eminent personages viz. 24 Jinas, v. Chacravartis, 9 Vásudévas, 9 Baladevas, and 9 Prativásudévas.

It appears, from the information procured by MAJOR MACKENZIE, that all these appertain to the heroick history of the Jaina writers. Most of them are also well known to the orthodox Hindus: and are the principal personages in the Puranas.

HEMACHANDRA subsequently notices many names of princes, samiliar to the Hindus of other sects. He begins with Prit'hu son of Vena, whom he terms the sirst king: and goes on to Mand'hata, Harischandra; Bharata son of Dushyanta &c. Towards the end of his enumeration of conspicuous princes, he mentions Carna king of Champa and Anga; Hala or Salavahana; and Cumarapala, surnamed Chaulucya, a royal faint, who seems, from the title of Paramarbata, to have been a Jama, and apparently the only one in that enumeration.

IN a subsequent part of the same chapter, Hemachandra (who was himself a theologian of his sect, and author of hymns to Jina\*) mentions and discriminates the various sects; viz. 1st, Arhatas or Jainas. 2ndly, Saugatas or Bauda'has and 3dly, six philosophical schools, viz. 1st. Naiyáyica; 2d. Yóga; 3d. Capillas Sánc'hya; 4th. Varieshica; 5th. Várhaspatya or Náslica; and 6th. Chárváca or Lócáyata. The two

<sup>\*</sup> A commentary on these hymns is dated in Saca 1214 (A. D. 1292); have now much earlier Hemachandra lived, is not yet ascertained.

Iast are reputed atheistical, as denying a suture state and a providence.

If those be omitted, and the two Mimansas inserted, we have the six schemes of Philosophy samiliar to the Indian circle of the sciences.

The fourth chapter of Hemachandra's vocabulary relates to earth and animals. Here the author mentions the distinctions of countries which appear to be adopted by the Jainas; viz. the regions (Varsha) named Bharata, Airávata, and Vidéha, to which he adds Curu; noticing also other distinctions familiar to the Hindus of other sects, but explaining some of them according to the ideas of the Juinas. 'Aryavarta.' he observes 's is the native land of Jinas, Chacris and Ardihachacris, situated between the Vindihya and Hinadri mountains.' This remark consines the theatre of Jaina history, religious and heroick, within the limits of Hindushan proper.

A PASSAGE, in BHASCARA'S treatife on the sphere, will suggest further observations concerning the opinions of the Jainas, on the divisions of the earth. Having noticed, for the purpose of consuting it, a notion maintained by the Baudd'has, (whom some of the commentators, as usual among orthodox Hindus, consound with the Jainas;) respecting the descent or fall of the earth in space; he says the naked sectaries and the rest affirm, that two suns, two moons, and two sets of stars, appear alternately: against them I allege this reasoning. How absurd is the notion which you have formed of duplicate suns, moons and stars; when you see the revolution of the polar sish.'

<sup>\*</sup> Gölád byáya. f. g. v. 8 & 10.

t Urfa miner.

THE commentators agree that the Jainas are here meant: and one of them remarks, that they are described as 'naked sectaries, &cc.'

Because the class of Digambaras is a property among these people.

It is true that the Jainas do entertain erous notion here attributed to them: and it is also true, that the Digambaras, among the Jainas, are distinguished from the Súclámbaras, not merely by the white dress of the one and the nakedness (or else the tawny apparel) of the other; but also by some particular tenets and diversity of doctrine. However, both concur in the same ideas regarding the earth and planets, which shall be forthwith stated, from the authority of Jaina books; after remarking, by the way, that asceticks of the orthodox sect, in the last stage of exaltation, when they become Paramahanasa, also disuse clothing.

The world, which according to the Jainas is eternal, is figured by them as a spindle resting on half of another; or, as they describe it, three cups, of which the lowest is inverted; and the uppermost meets at its circumference the middle one. They also represent the world by comparison to a woman with her arms akimbo. Her waist, or according to the description first mentioned, the meeting of the lower cups, is the earth. The spindle above, answering to the superior portion of the woman's person, is the abode of the gods; and the inserior part of the figure comprehends the insernal regions. The earth, which they

<sup>\*</sup> LACSHMIDASA, MUNISWARA and the Vafanabbafbya.

<sup>1</sup> The Sangrabani ratna and Locanab futra, both in Pracrit, are the authorities here used.

ter is one raju.\* The lower spindle comprises seven tiers of inserior earths or hells, at the faraju from each other, and its base is measured by seven respectively feven hells are Ratna prabhá, Sancara prabhá, Dhúman prabhá, Tama prabbá,

greatest breadth is five rajus. Its summit, which is 45,00,000 Yójanas wide, is the abode of the deisied saints: beneath that are five Vimánas or abodes of gods: of which the center one is named Sarvárthasiddha: it is encompassed by the regions Aparájita, Jayanta, Vaijayanta and Vijaya. Next, at the distance of one raju from the summit, sollow nine tiers of worlds, representing a necklace (graivéyaca,) and inhabited by gods, denominated, from their conceited pretensions to supremacy, Ahamindra. These nine regions are Aditya, Prítincara, Sómanasa, Sumanasa, Suvisála, Sarvatóbhadra, Manórama, Supravaddha and Sudarsana.

Under these regions are twelve (the Digambaras say sixteen) other regions, in eight tiers, from one to sive rajus above the earth. They are filled with Vimánas, or abodes of various classes of gods, called by the general name of Calpavásis. These worlds, reckoning from that nearest the earth; are Saud'hama and Isána; Sanatcumára and Mahéndra; Brahme; Lántaca; Sucra; Sahasrára; Ánata and Pránata; Árana and Achyuta.

THE sect of Jine distinguish sour classes of deities, the Vaimanicas, Bhuvanapatis, Jiótishis and Vyantaras. The last comprises eight

<sup>\*</sup> This is explained to be a measure of space, through which the gods are able to travel in fix months, at the rate of 20,57,152 Tojanas (of 2000 crossa each,) in the twinkling of an eye.

orders of demigods, or spirits, admitted by the Hindus in general, as the Rácshasas, Pisachas, Canaras &c. supposed to range over the earth. The preceding class (Jyótishis) comprehends five orders of luminaries; suns, moons, planets, constellations and stars, of which more hereafter. The Vaimánicas belong to the various Vimánas, in the twelve regions, or worlds inhabited by gods. The class of Bhuvanapati includes ten orders, entitled Afuracumára, Nágacumára &c.; each governed by two Indras. All these gods are mortal: except, perhaps, the luminaries.

The earth confilts of numerous distinct continents, in concentrick circles, separated by seas forming rings between them. The first circle is Jambudwipa with the mountain Sudarsa Méru in the centre. It is encompassed by a ring containing the salt ocean; beyond which is the zone named Dhatucidwipa; similarly surrounded by a black ocean. This again is encircled by Pushcaradwipa; of which only the first half is accessible to mankind: being separated from the remoter half, by an impassable range of mountains, denominated Manushottara Parvata. Dhatucidwipa contains two mountains, similar to Suméru, named Vijanga and Achala; and Pushcara contains two others, called Mandira and Vidyunmáh.

The diameter of Jambúdwípa being 1,00,000 great Yojanas,\* if the 190th part be taken, or  $526\frac{6}{19}$ , we have the breadth of Bharata varsha, which occupies the southern segment of the circle. Airávata is a similar northern segment. A band (33648  $\frac{4}{19}$  Yojanas wide) across the circle, with Sudarsa Méru in the middle of it, is Vidéha varsha, divided by Méru (or by sour peaks like elephant's teeth, at the sour corners of that

<sup>· \*</sup> Each great Yojana contains 2000 cos.

wast mountain) into cast and west Vidéha. These three regions, Bharata, Airávata, and Vidéha, are inhabited by men who practife religious duties. They are denominated Carmabhúmi, and appear to be furnished with distinct sets of Tirthancaras of faints entitled Jina. The intermediate regions, north and fourth of Meru, are bounded by four chains of mountains; and interfected by two others: in fuch a manner, that the ranges of mountains, and the intermediate vallies, increase in breadth progresfively. Thus Himavat is twice as broad as Bharata varsha (or 1052 110); The valley beyond it is double its breadth (2105 10); the mountain Mahahimavat, is twice as much (4210 10): its valley is again double (8421 1); and the mountain Nishad'ha has twice that breadth (16842 1). The vallies between these mountains, and between fimilar ranges reckoned from Airávata (viz. Sichari, Racmi and Níla), are inhabited by giants (Yugala), and are denominated Bhogabhumi. From either extremity of the two ranges of mountains named Himavat and Sichari, a pair of tulks project over the fea; each divided into feven countries denominated Antara-dwipas. There are confequently fifty-fix fuch; which are called Cubhogabhumi, being the abode of evildoers. None of these regions suffer a periodical destruction; except Bharata and Airávata, which are depopulated, and again peopled, at the close of the great periods beforementioned.

We come now to the immediate purpose, for which these notions of the Jainas have been here explained. They conceive the setting and rising of stars and planets to be caused by the mountain Sumeru: and suppose three times the period of a planet's appearance to be requisite for it to pass round Sumeru, and return to the place whence it emerges. Accordingly, they allot two suns, as many moons, and an equal num-

ber of each planet, star and constellation, to Jambudwipa; and imagine that these appear, on alternate days, south and north of Meru. They similarly allot twice that number to the salt ocean; six times as many to Dhátuci dwipa; 21 times as many to Dhátuci dwipa

It is this notion, applied to the earth which we inhabit, that BHACCARA refutes. His argument is thus explained by his commentators.

"The star close to the north pole, with those near it to the east and west, form a constellation figured by the Indian astronomers as a fish. In the beginning of the night (supposing the sun, to be near Bharani or Musca), the sish's tail is towards the west, and his head towards the east but at the close of the night, the sish's tail, having made half a revolution, is towards the east, and his head towards the west: and since the sun, when rising and setting, is in a line with the sish's tail, there is but one sun; not two.' This explanation is given by Muniswara and Lacshmidasa. But the Vasana Bhashya reverses the sish; placing his head towards the west at sun set, when the sun is near Bharani.

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TANGET SITE NO

On the Indian and Arabian Divisions of the Zodiack.

BY H. T. COLEBROOKE, Efq.

HE researche, of which the result is here laid before the Asiatick Society, were uncertaken for the purpose of ascertaining correctly the particular stars, which give names to the Indian divisions of the Zodiack. The inquiry has at intervals been relinquished and resumed: it was indeed attended with confiderable difficulties. None of the native astronomers, whom I confulted, were able to point out, in the heavens, all the : afterisms for which they had names: it became, therefore, necessary to recur to their books, in which the politions of the principal stars are given. Here a fresh difficulty arose from the real or the seeming disagreement of the place of a star, with the division of the Zodiack, to which it was referred: and I was led from the confideration of this and of other apparent contradictions, to compare carefully the places affigned by the Hindus to their nacshatras, with the positions of the lunar mansions, as determined by the Arabian astronomers. After repeated examination of this subject, with the aid afforded by the labors of those, who have preceded me in the same inquiry, I now venture to offer to the perusal of the Afiatick Society the following remarks, with the hope, that they will be found to contain a correct afcertainment of the flars by which the Hindus have been long accustomed to trace the moon's path...

The question, which I proposed to myself for investigation, appeared to me important, and deserving of the labor bestowed upon it, as obviously essential towards a knowledge of Indian astronomy, and as tending to determine another question: namely, whether the Indian and Arabian divisions of the Zodiack had a common origin. SIR WILLIAM JONES

thought, that they had not: I incline to the contrary opinion. The coincidence appears to me too exact, in most instances, to be the effect of
chance: in others, the differences are only such, as to authorize these
mark, that the nation, which borrowed from the other, has not copied
with servility. I apprehend, that it must have been the Arabs who adopted (with slight variations) a division of the Zodiack tamiliar to the
Hindus. This, at least, seems to be more probable than the sopration,
that the Indians received their system from the Arabians: we know, that
the Hindus have preserved the memory of a former situation of the Colures, compared to constellations, which mark divisions of the Zodiack
in their astronomy; but no similar trace remains of the use of the lunar
mansions, as divisions of the Zodiack, among the Arabs, in so very
remote times.

IT will be found, that I differ much from SIR WILLIAM JONES in regard to the stars constituting the asterisms of Indian astronomy. On this, it may be sufficient to remind the reader, that SIR WILLIAM JONES stated only a conjecture sounded on a consideration of the figure of the nachatra and the number of its stars, compared with those actually situated near the division of the ecliptick, to which the nachatra gives name. He was not apprized, that the Hindus themselves place some of these constellations far out of the limits of the Zodlack.

I SHALL examine the feveral nac'shatras and lunar mansions in their order; previously quoting from the Hindu astronomers, the positions assigned to the principal star, termed the yogatara. This, according to BRAHMEGUPTA, (as cited by LACSHMIDASA in his commentary on the Siromani,) or according to the Brahmesida hanta (cited by Bru-D'HARA), is the brightest star of each cluster. But the Saryasida hanta specifies the relative situation of the Yogatara in respect of the others.

flars: and that does not always agree with the polition of the most con-

THE number of stars in each asterism, and the sigure under which the asterism is represented, are specified by Hindu astronomers: particularly by Sripani in the Ratnamalá. These, with the positions of the Care relatively to the ecliptick, are exhibited in the annexed table. It contains the whole purport of many obscure and almost enigmatical verses, of which a verbal translation would be nearly as unintelligible to the English, reader, as the original text.

The authorities, on which I have chiefly relied, because they are universally received by Indian astronomers, are the Súryasidd'hánta, Sirómani, and Grahalághava. They have been carefully examined, comparing at the same time several commentaries. The Ratnamálá of Sripati is cited for the sigures of the asterisms; and the same passage had been noticed by Sir William Jones (As. Res. vol. 2. p. 294). It agrees nearly with the text of Vasisht'ha cited by Muniswara, and is consirmed in most instances by the Muhúrta Chintámeni. The same authority, consirmed with rare exceptions by Vasisht'ha, Sacalya and the Abharana, is quoted for the number of stars in each asterism. The works of Branmegupta have not been accessible to me: but the Marichi, an excellent commentary on the Sidd'hánta Sirómani, by Muniswara, adduces from that author a statement of the positions of the stars; and remarks, that it is founded on the Brahmesidd'hánta, contained in the Vishnud'hermóttara. \* Accordingly, I have found the same pas-

<sup>\*</sup> Another Brahmefedd'hanta is entitled the Sacalyafanhita. The author of the Mariehis therefore, distinguishes the one to which he refers.

fage in the Brahmefidd'hánta, and verified it by the glossentitled Váfand; and I, therefore, use the quotation without distrust. Later authorities, whose statements coincide exactly with some of the preceding (as Camanala Cara in the Tatwavivéca) would be needlessly inserted: but one (Muniswara in the Sidd'hánta Sárvabhauma), exhibiting the position of the stars differently, is quoted in the annexed table.

The manner of observing the places of the stars is not explained in the original works first cited. The Suryasida hanta only hints briefly, that 'the astronomer should frame a sphere, and examine the appart longitude and latitude,' \* Commentators, † remarking on this passage, describe the manner of making the observation: and the same description occurs, with little variation, in commentaries on the Sirómani. † They direct a spherical instrument (Gólayantra) to be constructed, according to instructions contained in a subsequent part of the text. This, as will be hereafter shown, is precisely an armillary sphere. An additional circle, graduated for degrees and minutes, is directed to be suspended on the pins of the axis as pivots. It is named Véd haval ya or intersecting circle, and appears to be a circle of declination. After noticing this addition to the instrument, the instructions proceed to the rectifying of the Gólayantra or armillary sphere, which is to be placed, so that the axis shall point to the pole, and the horizon be true by a water level.

THE instrument being thus placed, the observer is instructed to look at the star Révatí through a fight sitted to an orifice at the centre of

<sup>\*</sup> Sphutavichepa and Sphutedbruvaes; which will be explained further on.

<sup>+</sup> RANGANAT'HA and PRUD'HARA,

<sup>1</sup> In the Vafanabhafbys, and in the Marichi.

the sphere; and, having sound the star, to adjust by it the end of the sign Pisces on the ecliptick. The observer is then to look, through the signt, at the yoga star of Aswini, or of some other proposed object; and to bring the moveable circle of declination over it. The distance in degrees, from the intersection of this circle and ecliptick, to the end of Mina or Pisces, is its longitude (dibruvaea) in degrees: and the number of degrees on the moveable circle of declination, from the same intersection to the place of the star, is its latitude (vicshépa) North or South.\*

(sphula) apparent, being the place intercepted between the star and the ecliptick, on a circle passing through the poles; but the true latitude (asphula) is found on a circle hung upon the poles of the celestial sphere, as directed in another place. The longitude, found as above directed, is, in like manner, the space intercepted between the origin of the ecliptick and a circle of declination passing through the star: differing, consequently, from the true longitude. The same commentators add; that the longitudes and latitudes, exhibited in the text, are of the description thus explained: and those, which are stated in the Súrya Siddhánta, are expressly assirmed to be adapted to the time when the equinox did not differ from the origin of the ecliptick in the beginning of Mésha.

It is obvious, that, if the commentators have rightly understood the

Father PETAU, and, after him, BAILLY, for reasons stated by them (Uranol. Differts 2. 2. Ast. Anc. p. 428.), are of opinion, that the ancient astronomers referred stars to the Equator; and that EUDOXUS and HIPPARCHUS must be so understood, when speaking of the longitudes of stars. Perhaps the Greek astronomers, like the Hindus, reckoned longitudes upon the ecliptick intersected by circles of declination, in the manner, which has been here explained.

<sup>†</sup> BHUD'HARA is the most explicit on this point.

text of their authors, the latitudes and longitudes, there given, require correction. It will indeed appear, in the progress of this inquiry, the the positions of stars distant from the ecliptick, as there given, de exactly correspond with the true latitudes and longitudes of the stars supposed to be intended: and the disagreement may be accounted for, by the circumstance of the observations having been made in the man exabove described.

Another mode of observation is taught in the Siddhanta Sundara cirod and expounded by the author of the Sidd'hanta Sarvachauma. At adapted to the summit of a gnomon, is directed towards the star on the meridian: and the line of the tube, pointed to the star, is prolonged by a thread to the ground. The line from the fummit of the gnomon to the base is the hypothenuse; the height of the gnomon is the perpendicular; and its distance from the extremity of the thread is the base of the triangle. Therefore, as the hypothenuse is to its base, so is the radius to a base, from which the sine of the angle, and consequently the angle itself, are known. If it exceed the latitude, the declination is fouth; or, if the contrary, it is north. The right afcension of the star is ascertained by calculation from the hour of the night, and from the right ascension of the fun for that time. The declination of the corresponding point of the ecliptick being found, the sum or difference of the declinations, according as they are of the same or of different denominations, is the distance of the star from the ecliptick. The longitude of the same point is computed; and from these elements, with the actual precession of the equinox, may be calculated the true longitude of the star; as also its latitude on a circle passing through the poles of the ecliptick'.

Such, if I have rightly comprehended the meaning in a fingle and not very accurate copy of the text, is the purport of the directions gi-

ven in the Sidd'hanta Sarvabhauma: the only work, in which the true latitudes and longitudes of the stars are attempted to be given. All the each exhibit the longitude of the star's circle of declination, and its diftance from the Ecliptick measured on that circle:

I SUPPOSE the original observations, of which the result is copied from BRAHMEGUPTA and the Súrya Sidd'hanta, with little variation, by successive authors, to have been made about the time, when the vernal equinox was near the first degree of Mesha.\* The pole then was nearly sevencen degrees and a quarter from its present position, and stood a little beyond the star near the ear of the Camelopard. On this supposition, it will be accordingly found, that the assigned places of the Nac-shatras are easily reconcileable to the positions of stars likely to be meant.

Indian and Grecian celeftial spheres, implies considerable antiquity. It cannot have been taken from our present pole-star (" Ursæ minoris), which, as Mons. Bailly has observed (Astronomie Ancienne p. 511), was remote from the pole, when Eudoxus described the sphere; at which time, according to the quotation of Hipparchus, there was a star situated at the pole of the world.\* Bailly conjectures, as the intermediate stars of the sixth magnitude are too small to have designated the pole, that " Draconis was the star meant by Eudoxus, which had

<sup>\*</sup> BRAHMEGUPTA wrote foon after that period: and the Surya Sidd'hanta is probably a work of nearly the fame age. Mr. Bentley confiders it as more modern (As. Res. vol. 6.): it certainly cannot be more ancient; for the equinox must have past the beginning of Mcha, or have been near it, when that work was composed.

<sup>.</sup> HIPPARCHUS. Comment. on Aratus. Lib. 1. p. 179.

been at its greatest approximation to the pole, little more than sour degrees from it, about 1326 years before Christ. It must have been distant, between seven and eight degrees of a great circle, when Eudoxu wrote. Possibly the great star in the Dragon (a Draconis), which situated very near to the circle described by the north pole round to pole of the ecliptick, had been previously designated as the polar star. It was within one degree of the north pole about 2836 years before Christ. As we know, that the idea could not be taken from the star in the tail of Urla minor, we are forced to choose between Basedy's conjecture or the supposition of a still greater antiquity. I should, therefore, be inclined to extend to the Indian sphere, his conjecture respecting that of Eudoxus.

I SHALL now proceed to compare the Nacshatras with the Manzils of the moon, or lunar mansions.

I. Aswini, now the first Nacshatra, but anciently the last but one, probably obtained its present situation at the head of the Indian afterisms, when the beginning of the Zodiack was referred to the first degree of Mésha, or the Ram, on the Hindu sphere. As measuring a portion of the Zodiack, it occupies the first 13° 20' of Mésha: and its beginning follows immediately after the principal star in the last Nacshatra (Révati), reckoned, by some exactly, by others nearly, opposite to the very conspicuous one, which forms the sourceenth afterism. Considered as a constellation, Aswini comprises three stars sigured as a horse's head; and the principal, which is also the northern, one, is stated by all ancient authorities, in 10° N. and 8° E. from the beginning of Mésha.

THE first Manzil, or lunar mansion, according to the Arabs, is entitled

Sheratan, (by the Persians corruptly called, as in the oblique case, Sheratain), and comprises two stars of the third magnitude on the head of Aries, in lat. 6° 36', and 7° 51', N. & long. 26° 13', and 27° 7'. (Hyde's Ulughbeg p. 58). With the addition of a third, also in the head of the Ram, the afterism is denominated Ashrát. The bright star of the 2d or 3d magnitude which is out of the figure of the Ram, according to Ulughbeg, but on the nose according to Hipparchus cited by this author from Prolemy, is determined Nátih: it is placed in Lat. 9° 30' N. & Long. 1° 0° 43', and is apparently the same with the principal star in the Indian asterism; for Muhammed of Tízín, in his table of declination and right ascension, expressly terms it the sirst part of the Sheratain. (Hyde's Com. on Ulugh Bec's tables. p. 97).

MANY Pandits, consulted by me, have concurred in pointing to the three bright stars in the head of Aries (a & & v) for the Indian constellation Aswini. The first star of Aries (a) was also shown to Dr. Hunter, at Ujjayini, for the principal one in this afterism; and Mr. Davis (As. Res. vol. 3. p. 226.) states the other two, as those which were pointed out to him by a skilful native astronomer, for the stars that distinguish Aswini. The same three stars, but with the addition of three others, were indicated to Le Gentil, for this constellation (Mem. Acad. Scien. 1772. P. II. p. 209). I entertain therefore no doubt, that Sir W. Jones (As. Res. vol. 2. p. 298.) was right in placing the three stars of Aswini in, and near, the head of the Ram; and it is evident, that the first Nacshatra of the Hindus is here rightly determined, in exact confirmity with the first Lunar mansion of the Arabs; although the longitude of a Arietis exceed, by half a degree, that which is deduced, for the end of Aswini, from the supposed situation

ation of the Virgin's spike opposite to the beginning of this Nacshatra; and although its circle of declination be 13° instead of 8° from the principal star in Révatí.

II. Bharani, the second Indian afterism, comprises three stars fr gured by the Yoni or pudendum muliebre: and all ancient authorities concur in placing the principal and fouthern star of this Nacshatra in 12° N. The second Manzil, entitled Butain, is placed by Ulugh Beg (Hyde p. 61.) in Lat. 1° 12' & 3° 72'; and this cannot possibly be reconciled with the Hindu constellation. But Muhammed of Tizin (See Hyde's commentary p. 97), affigns to the bright star of Butain a declination of 23° N. exceeding by nearly 2° the declination allotted by him to Natih, or his first star in Sheratain. This agrees with the difference between the principal stars of Aswini and Bharani; and it may be inferred, that some among the Muhammedan astronomers have concurred with the Hindus, in referring the fecond constellation to stars that form Musca. There were no good grounds for supposing Bbarani to correspond with three stars on the tail of the Ram (As. Res. vol. 2. p. 298); and I have no doubt, that the stars, which compose this Nacshatra, have been rightly indicated to me, as three in Musca forming a triangle almost equilateral; their brightness, and their equal distance from the first and third afterisms, corroborate this opinion, which will be confirmed by showing, as will be done in the progress of this com-Parison, that the Nacshatras are not restricted to the limits of the Zodiack.

III. Crittica, now the third, but formerly the first, Nacshatra, confists of fix stars figured as a knife or razor, and the principal and southern star is placed in 4½° or 5° N, and in 65 fixths of degrees (or

or 37° 28' to 38° from the beginning of Mesha, according to the Sid-d'hanta Sirémani, and Grahalághava, respectively. This longitude of the circle of declination corresponds nearly with that of the bright star in the Pleiades, which is 40° of longitude distant from the principal star of Révatí.

THE stars, indicated by ULUGHBEG for Thurayyá, also correspond exactly with the Heiades; and these were pointed out to the Jesuit missionaries,\* as they have since been to every other inquirer, for the third Nacshatra. If any doubt existed, Mythology might assist in determining the question; for the Critticas are six nymphs, who nursed Scanda, the God of war, named from these, his softer mothers, Carticeya or Shanmatura.

IV. We retain on our celestial globes the Arabick name of the sourth Iunar mansion Debarán (or with the article, Aldebaran); applied by us, however, exclusively to the bright star called the Bull's-eye; and which is unquestionably the same with the principal and eastern star of Rohini, placed in 4½° or 5° S. & 49° ½ E. by the Hindu writers on Astronomy. This Nachatra, sigured as a wheeled carriage, comprises sive stars, out of the seven which the Greeks named the Hyades. The Arabs, however, like the Hindus, reckon sive stars only in the asterism; and Sir W. Jones rightly supposed them to be in the head and neck of the Bull; they probably are a sy se Tauri, agreeably to Mons. Ballly's conjecture (Ast. Ind. p. 129).

Coftard's Hift, of Aft, p. 51. Bailly Aft. Ind. p. 134.

Hindu astronomers define a point in this constellation, of some importance in their fanciful astrology. According to the Súrya sída hánta, when a planet is in the 7th degree of Vrisha (Taurus), & has more than two degrees of south latitude, or, as commentators expound the passage, 2° 40′; 1 anet is said to cut the cart of Róhini. This is denominated Sacatab or the section of the wain. Lalla and the Grahalághava give nearly the same definition; and it is added in the work last mentioned, that, when Mars, Saturn and the Moon are in that position (which occurs, in regard to the moon, when the node is eight nacshatras distant from Punarvasu, and might happen in regard to the rest during another Yuga), the world is involved in great calamity. Accordingly, the Puranas contain a legendary story of Dasarar ha's dissuading Saturn from so traversing the consiellation Rôhini.

V. Mrigasiras the fifth Nachatra, represented by an antelope's head, contains three stars; the same which constitute the fifth lunar mansion Hakâh; for the distance of 10° S. assigned to the northern star of this Nacshatra, will agree with no other, but one of the three in the head of Orion. The difference of longitude (24° to 25½°) from Crittica corresponds with sufficient exactness; and so does the longitude of its circle of declination (62° to 63°) from the end of Révatí; since the true longitude of A Orionis, from the principal star in Révatí (3 Piscium), is 63½°. It was a mistake to suppose this afterism to comprise stars in the seet of Gemini, or in the Galaxy (As. Res. vol. 2. p. 298.)

VI. Ardrá, the fixth Nacshatra, consists of a single bright star, det scribed as a gem, and placed in 9° S. by one authority, but in 11° by others, and at the distance of 4½° to 4° in longitude from the last afterism. This indicates the star in the shoulder of Orion (\* Orionis); not,

as was conjectured by SIR WILLIAM JONES, the flar in the knee of Pollux (As. Res. 2. p. 298).

THE fixth lunar mansion is named by the Arabs, Hanáh; and comprises the lars in the feet of the second twin, according to Uluch Bec, though others make it to be his shoulder (Hyde Com. p. 7. and 44). Muhammed of Tizin allots five stars to this constellation; and the Kámus, among various meanings of Hanáh, says, that it is a name for five stars in the left arm of Orion; remarking, also, that the lunar mansion is named Tanays, comprising three stars called Tahyát. Either way however, the Indian and Arabian asterisms appear in this instance increased the second control of the stars and stars and stars appear in this instance increased the stars and the stars and the stars and the stars are stars and the stars and the stars are stars as a star as a star and the stars are stars as a star as a star

VII. The leventh Nachatra, entitled Punarvaju, and represented by a house, or, according to a Sanferit work cited by Sir William Jones (As. Res. v. 2. p. 295), a bow, is stated by astronomers as including four stars, among which the principal and eastern one is distant 30° or 32° from the sisth asterism; but placed by all authorities in 6° N. This agrees with (3 Geminorum) one of the two stars in the heads of the twins, which together constitute the seventh lunar mansion Zirad, according to Muhammed of Tusi and Muhammed of Tizin and other Arabian authorities (Hyde on Ulugh bec p. 43.)

It appears from a rule of Sanferit grammar, \* that Punarvofu, as a name for a constellation, is properly dual, implying, as it may be supposed, two stars. On this ground, a conjecture may be raised, that Punarvasu originally comprised two stars, though four are now assigned to it. Accordingly, that number is retained in the Sacalya Sanhitos.

<sup>\*</sup> PANIMI T. II. 63-

It may be further observed, that the seventh lunar mansion of the Arab is named Ziraa ul a sed according to Juhari and others cited by Hy (Com. on Ulugh Beg. p. 44); and that the Kamus makes this term to be the name of eight stars in the form of a bow.

Upon the whole, the agreement of the Indian and Arabian conficilations is here apparent, notwithflanding a variation in the number of the
flars; and I conclude, that Punarvasu comprises, conformably with Sir
William Jones's supposition (As. Res. vol. 2. p. 299), flars in the
heads of the twins; viz. a, b, Geminorum; and which were indicated
to Dr. Hunter by a Hindu astronomer at Ujjayin; to which, perhaps,
and r may be added to complete the number of four.

VIII. Pufhya, the eighth afterism, is described as an arrow; and consists of three stars, the chief of which, being also the middlemost, has no latitude, and is 12° or 13° distant from the seventh afterism, being placed by Hmdu aftronomers in 106° of longitude. This is evidently a Cancri; and does not differ widely from the eighth lunar mansion Nethrah, which, according to Ulugh beg and others (Hyde's Com. P. 45), consists of two stars, including the nebula of Cancer. The Indian constellation comprises two other stars, besides a Cancri, which are perhaps  $\gamma$  and  $\beta$  of the same constellation; and SIR WILLIAM Jones's conjecture, that it consists of stars in the body and claws of Cancer, was not far from the truth.

IX. The ninth afterism, Aslesha, contains five stars sigured as a potter's wheel, and of which the principal or eastern one is placed in 7° Sand, according to different tables, 107°, 108°, or 109°, E. This appears to be intended for the bright star in the southern claw of Cancer (a Cancri,) and cannot be reconciled with the lunar mansion Tarf or Tarfah, which comprises two stars (Hyde's Com. p. 8.) near the lion's eye; the northernmost being placed by Muhammed of Tizin in 24° of N. declination (Hyde's Com. p. 101). The Jesuit missionaries, if rightly quoted by Costard (Hist. of Astr. p. 51.) made Asseshá correspond with the bright stars in the heads of Castor and Pollux, together with Procyon." This is evidently erroneous. Sir William Jones's supposition, that Asseshá might answer to the face and mane of Leo, nearly concurs with the Arabian determination of this lunar mansion, but disagrees with the place assigned to the stars by Hindu astronomers. Ballay committed the unit missake, when he affirmed, that Asseshá is the Lion's head. (Astr. Ind. p. 328).

X. The tenth afterism Mag'há contains, like the last, sive stars; but which are figured as a house. The principal or southern one has no latitude, and, according to all authorities, has 129° longitude. This is evidently Regulus (a Leonis): which is exactly 129° distant from the last star in Révatí.

According to the Jesuits cited by Costard, Mag'há answers to the lion's mane and heart; and the tenth lunar mansion of the Arabians, Jebhah, comprises three (some say four) stars, nearly in the longitude of the Lion's heart (Hyde's Ulugh Beg p. 74 and Com. p. 46.) In this instance, therefore, the Indian and Arabian divisions of the Zodiack coincide: and it is owing to an oversight, that Sir William Jones states the Nacshatra as composed of stars in the Lion's leg and haunch. It appears to consist of  $\alpha \gamma \zeta$  n and v Leonis.

XI. Two stars, constituting the eleventh Nacshatra, or preceding Phálguní, which is represented by a couch or bedstead, are determined by the place of the chief star (the northernmost according to the Súrya

sidd'hánta) in 12° N. and 144° E. or, according to BRAHMEGUPTA, the Sirómani and the Grahalág'hava 147° or 148° E. They are probably and a Leonis; the same which form the lunar mansion Zubrah or Khertán (Hyde's Ulugh Beg, p. 76 and Com. p. 47).

IT may be conjectured, that BRAHMEGUPTA and BHASCARA felected the fouthern for the principal star; while the Súrya siddhánta took the northern: hence the latitude, stated by those several Hindu authorities, is the mean between both stars; and the difference of longitude, compared to the preceding and subsequent asterisms, may be exactly reconciled upon this supposition.

XII. Two other stars, constituting the twelfth Nacshatra, or following P'hálguni, which is likewise sigured as a bed, are ascertained by the place of one of them (the northernmost) in 13° N. and 155° E. This indicates a Leonis; the same which singly constitutes the Arabian lunar mansion Sersah (Hyde's Ulugh Beg, p. 78 and Com. p. 47.), though Muhammed of Tízín seems to hint that it consists of more than one star (Hyde, p. 102.) By an error regarding the origin of the ecliptick on the Indian sphere, Sir William Jones refers to the preceding Nacshatra, the principal star of this asterism.

XIII. Hasta, the thirteenth Nacshatra, has the name and figure of a hand; and is suitably made to contain five stars. The principal one, towards the west, next to the north-western star, is placed according to all authorities in 11° S. and 170° E. This can only belong to the constellation Corvus: and accordingly five stars in that constellation (α β γ δ ε Corvi), have been pointed out to me by Hindu astronomers for this Nacshatra.

Awai, the thirteenth lunar mansion of the Arabs, is described as containing the same number of stars, situated under Virgo, and so disposed as to resemble the letter Alis. They are placed by Ulugh Beg in the wing (Hyde's Ulugh Beg, p. 80).

In this inflance the Indian and Arabian divisions of the Zodiack have nothing in common but the number of stars and their agreement of longitude. It appears, however, from a passage cited from Suri by Hyde (Com. p. 82), that the Arabs have also considered the constellation of Corvus as a mansion, the moon.

NIV. The fourteenth Nacshatra, figured as a pearl, is a single starnamed Chitrá. It is placed by the Súrya sidd'hánta in 2° S. and 180° E; and by Brahmegupta, the Sirómani and Graha Lág'hava, in 13° or 2° S. and 183° E. This agrees with the virgin's spike (a Virginis;) and Hindu astronomers have always pointed out that star for Chitrá. The same star constitutes the sourteenth lunar mansion of the Arabs, named from it Simác ul aázil. Le Gentil's conjecture,\* that the sourteenth nacshatra comprises the two stars 3 and 4 Virginis was entirely erroneous. And Mons. Bailly was equally incorrect in placing 6 Virginis in the middle of this asterism (Astr. Ind. p. 227).

XV. ANOTHER fingle star constitutes the fifteenth Nacshatra, Swatt, represented by a coral bead. The Súrya sidd'hánta, BRAHMEGUPTA' the Sirómani and Graha lág'hava, concur in placing it in 37° N. They differ one degree in the longitude of its eircle of declination; three of these authorities making it 199°, and the other 198°.

THE only conspicuous star, nearly in the situation thus assigned to

FATHER SOUCIET, by whom Corona Horeni , 722 .q .bnl .nh valrad .

Swari, (and the Indian astronomers would hardly travel so far from the Zodiack to seek an obscure star;) is Arcturus, 33° N. of the ecliptick in the circle of declination, and 198° E. from the principal star of Révatir I am therefore disposed to believe, that Swati has been rightly indicated to me by a native astronomer who pointed out Arcturus for this Nacshatra. The longitude, stated by Muniswara (viz. 1½° less than Chiirá), indicates the same star: but, if greater reliance be placed on his latitudes, the star intended may be a Boatis. At all events, Mons. Ballly mistook, when he asserted, on the authority of Le Genta, that the sisteenth Nacshatra is marked by a Virginis; and that this stars a suitated at the beginning of the Nacshatra (Ast. Ind. p. 139 and 227).

THE Indian afterism totally disagrees with the lunar mansion Ghafr, consisting of three stars in the Virgin's foot, according to Ulugh Beg (Hyde p. 82. and Com. p. 50); but in, or near, the balance, according to others (ibid).

XVI. Visác'há, the fixteenth Nacshatra, confiss of sour stars described as a sestion. Authorities differ little as to the situation of the principal and northernmost star: placing it in 1°, 1° 20′, or 1° 30′ S. and in 212°, 212° 5′ or 213° E. The latitude seems to indicate the bright star in the southern scale (a Libræ), though the longitude disagree; for this suggests a remote star (possibly a Libræ). I apprehend the sirst to be nearest the truth; and hence conclude the sour stars to be and Libræ and a Scorpii.

The fixteenth lunar mansion named Zubanah or Zubaniyah, is according to Muhammed of Tizin (Hyde Com. 104), the bright star in the northen scale (\$\beta\$ Libræ), which Sir William Jones supposed to be the sisteenth Nacshatra.

FATHER SOUCIET, by whom Corona Borealis is stated for the asterisin

Wisacka, is censured by SIR W. JONES, under an impression, that all the Nacshatres must be sought within the Zodiack. The information, received by Father Soucier, does appear to have been erroneous; but the same mistake was committed by a native astronomer, who showed to me the same constellation for Visachá; and the Nacshatras are certainly not restricted to the neighbourhood of the ecliptick.

XVII. Four flars, (or, according to a different reading, three,) defioribed as a row of oblations, that is, in a right line, conflitute the feventwenth Nachatea named Anuradha. Here also, authorities differ little as to the fituation of the chief and middlemost flar; which is placed in 3°, or 2°, or 1° 45' S. and in 224° or 224, 5' E.. This must intend the star near the head of the scorpion (3 Scorpionis); and the afterism probably comprises 3 3 x and p. Scorpionis.

THE seventeenth lunar mansion of the Arabs called Ichil or Ichiluje-bhah, contains four (some say three, and others six, \*) stars lying in a straight line. Those, assigned by Ulugh BEG (Hyde p. 87) for this mansion, are Adva Scorpionis.

HERE the Indian and Arabian divisions appear to concur exactly; and Sir W. Jones (As. Res. 2. p. 299), as well as the Missionaries cited by Costard (Hist. Astr. p. 51), have apparently understood the same stars; though the latter extend the Nacshatra to the constellation Serpentarius:

XVIII. Jyesht'ha, the eighteenth Nacshatra, comprises three stars figured as a ring. In regard to this, also, authorities are nearly a-

Hype's Com. p. 510

greed in the position of the principal and middlemost stated in 4°, 3½°, or 3° S, and in 229°, 229° 5′, or 230° E. The position clearly in dicates Antares or the Scorpion's heart (a Scorpionis); which is also the eighteenth lunar mansion named Kalb or Kalbu'lākrab. The three stars of the Indian asterism may be a 5 & \tau Scorpionis.

XIX. The nineteenth afterism, Múla, represented by a Lion's tail, contains eleven stars, of which the characteristick one, the easternmost, is placed in 9°, 8½° or 8° S. and in 241° or 242° E. Although the latitude of v Scorpionis be five degrees too great them seems little doubt, that either that, or the star east of it marked v, much be intended; and this determination agrees with the 18th lunar number of the Arabs called Shaulah, consisting of two stars near the scorpion's sting. The Hindu afterism probably includes all the stars placed by us in the Scorpion's tail, vizt. \* \$\mu \cdot \cdot n \text{ in } \mu \te

XX. The twentieth Nachhatra, entitled preceding Afhádha, figured as an elephant's tooth, or as a couch, confifts of two stars, of which the most northern one is placed in  $5\frac{1}{2}^{\circ}$   $5\frac{1}{3}^{\circ}$  or  $5^{\circ}$  S. and  $254^{\circ}$  or  $255^{\circ}$ . E. This suits with  $\delta$  Sagittarii, which is also one of the stars of the twentieth lunar mansion called Naaim. It consists of sour, or, according to some authorities, of eight, stars. The Indian afterism seemingly comprises  $\delta$  &  $\varepsilon$  Sagittarii.

XXI. Two stars constitute the twenty-first afterism, named the subsequent Ashadha, which is represented by a couch or by an elephant's tooth. The principal star, which also is the most northerly one, is placed in 5° S, and 260°, or 261° E. This agrees with a star in the body of Sagittarius (r Sagittarii), and the other star is perhaps the one marked 5.

The twenty first lanar mansion of the Arabians, named Baldah, comparises his tars, two of which are placed by Muhammed of Tizin in Declination 21° & 16°. One of these must be a star in the head of Sagittarius. Some authors, on the contrary, describe the lunar mansion as destinate of stars (Mars. Com. on Ulugh Beg, p. 9.) At all events, the Hindu and Arabian divisions appear, in this instance, to be but imperfectly reconcileable.

XXII. THREE stars, sigured as a triangle, or as the nut of the floating Trapa, form the to enty-second asterism, named Abhijit; which, in the modern Indian and omy, does not occupy an equal portion of the ecliptick with the other Nacshatras, but is carved out of the contiguous divisions. Its place (meaning that of its brightest star) is very remote from the Zodiack; being in 60° or 62° N. The longitude of its circle of declination, according to different authorities, is 265°, 266° 40′, or 268°. Probably the bright star in the Lyre is meant. It was shown to Dr. Hunter, at Ujjayini for the chief star in Abhijit; and the same was pointed out to me, for the asterism, by a Hindu astronomer at this place.

THE Arabian lunar mansion Zâbih, consists of two stars (some reckon four)\* in the horns of Capricorn, totally disagreeing with the Indian Nacshatra.

XXIII. Śravaná, the twenty-third Nachatra, represented by three footsteps, contains three stars, of which one, the middlemost, is by all authorities placed in 30° N. but they differ as to its longitude; the Surya Sidd'hanta \* 'ar it in 280°; BRAHMEGUPTA and the Śirómani, in 278°;

<sup>\*</sup> ULUCH BEG. p. 94 and Hype's Com. 54

and the Grahnlig hava in 275°. The affigned latitude indicates the bright flar in the eagle, whence the three may be inferred to be a same and analysis of the same and the sa

THE twenty-third mansion of the moon, called by the Arabs Bald, consists of two stars in the less hand of Aquanus. Consequently the Arabian and Hindu divisions are here at variance.

AXIV. D'hanishi'há, the twenty-fourth asterism, is represented by a drum or tabor. It comprises four stars, one of which (the western-most) is placed in 36° N. and, according to the Súrya siddihanta,. Brahmeguera and the Siromani, in 290° E. though the Grahalág'hava state 286° only. This longitude of the circle of declination, and the distance of the star on it from the ecliptick, indicate the Dolphin; and the four stars probably are 287 and 3 Delphini. The same constellation is mentioned by the Jesuit missionaries as corresponding to D'hanishi'ha: (Costard p. 51): and there can be little doubt, that the ascertainment is correct. The longitude, stated by Muniswara, (viz. 294° 12') supports the conclusion, though his latitude (26° 25') be too small. To determine accurately the position of this Nacshatra is important, as the solstical colure, according to the ancient astronomers, passed through the extremity of it, and through the middle of Assessa.

The twenty-fourth mansion, called by the Arabs Suud, comprises two-stars in Aquarius (8 and 2 Aquarii); totally disagreeing with the Hindus division.

XXV. Satabhishá, the twenty-fifth Nacshatra, is a cluster of a hundred stars figured by a circle. The principal one, or brightest, has no latitude; or only a third, or at the utmost half, a degree of south latitude; and all the tables concur in placing it in long. 320°. This will suit best with a

Where SIR WILLIAM JONES places the Nachatra; and in the right leg of Aquarius.

Akhbiyah, the twenty-fifth lunar mansion, is stated to consist of three stars only, which seems to be three in the wrist of the right hand of Aquarius (HYE'S com. p. 55). However, it appears from Ulugh Beg's tables, as well as from Muhammed of Tizin's, that sour stars are assigned to this mansion (HYDE p. 99. and Com. p. 95).

THE Hindu and Arabian afterisms differ, here, less widely, than in the instances lately noticed: and a passage, cited by Hyde from Firozabadi, even intimates the circular figure of the constellation (Com. p. 10).

XXVI. The twenty-fixth of the Indian afterisms, called the preceding Bhádrapada, confists of two stars represented by a couch or bed, or else by a double headed sigure; one of which is placed by Hindu astronomers in 24° N. and 325° or 326° E. The only conspicuous star, nearly in that situation, is the bright star in Pegasus (« Pegasi); and the other may be the nearest considerable star in the same constellation (ζ Pegasi). I should have considered β Pegasi to be the second star of this Nacshatra, were not its yóga or chief star expressly said to be the most northerly. Mukaddim, the 26th lunar mansion, consists of the two brightest stars in Pegasus (« and β);\* and thus the two divisions of the Zodiack nearly concur.

XXVII. Two other stars constitute the 27th lunar mansion named the subsequent Bhádrapada: They are figured as a twin, or person with

HYDE'S ULUCH BEG, p. 53. and Com. p. 34.

a double face, or else as a couch. The position of one of them (the most northerly) is stated in 26° or 27° N. and 337° E. I suppose the bright star in the head of Andromeda to be meant; and the other star to be the one in the extremity of the wing of Pegasus (7 Pegasi). This agrees exactly with the 27th lunar mansion of the Arabians, called Mudkher. For Ulugh Beg assigns those stars to it (Hyde p. 53. Com. p. 34. and 35).

XXVIII. The last of the twenty-eight asterisms is named Révati, and comprises thirty-two stars figured as a tabor. All authorities agree, that the principal star, which should be the southernmost, has no latitude, and two of them affert no longitude; but some make it ten minutes short of the origin of the ecliptick, viz. 359° 50'. This clearly marks the star on the ecliptick in the string of the fishes (z Piscium); and the ascertainment of it is important in regard to the adjustment of the Hindu sphere.

The Arabick name of the 28th mansion, Risha, signifying a cord, seems to indicate a star nearly in the same position. But the constellation, as described by Juhari cited by Golius, consists of a multitude of stars in the shape of a fish, and termed Betnu'lhút; in the navel of which is the lunar mansion: and Muhammed of Tizin, with some others, also makes this lunar mansion to be the same with Betnu'lhút, which appears, however, to be the bright star in the girdle of Andromeda (3 Andromedæ); though others describe it as the northern fish, extending, however, to the horns of the ram (Hyde's Com. p. 10, 35 and 95). The lunar mansion and Indian asterism are, therefore, not reconcileable in this last instance.

THE result of the comparison shows, I hope fatisfactorily, that the Indian afterisms, which mark the divisions of the ecliptick, generally confish of nearly the same stars, which constitute the lunar mansions of the

Table of Nacshatras or Asterism	is marking the Moon's path.
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Table of Nacshatras or Asterisms marking the Moon's path.																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	1 14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Names of the Nacshatras	Aswini,	Bharaní.	Crăttleá.	Róhiní.	Mrīgasīras.	Árdrá.	Punarvasu.	Pushya.	Asléshá.	Magʻhā.	P. Phálguní.	U. Phálguní.	Hasta.	Chitrá.	Swáti.	Visác'há.	Anurád'hš.	Jyésht'há.	Múla,	P. Áshád'ha.	Áshád'h	Abhijit,	Śravána.	D'hanish- t'há.	Šatabhishā.	P. Bhádrapada	U. Bhádrapada.	Révati.
Presiding deities or regents of each asterism.	The Aswins.	YAMA.	Fire.	PRAJA- PATI.	The moon.	RUDRA.	Apiri.	Vrihas- pati.	The Serpents.	The Pitri	Bhaga.	ARYAMAN	Savitri or the Sun.	Twash-	Air.	INDRA and fire,	MITRA.	INDRA.	Ninniti, a Ráeshas.	Water.	The Viswedevas	BRAHMA	Vishnu.	The Pasus.	VABUNA.	AJAPAT.	AHIBRA- D'HNA.	Pushan.
The figures of the Nacibatras according to	A horse's head.	The Youi.	A razor o knife.	A wheeled Carriage.	An ante- lope's head.	A gem.	A house.	An arrow.	A potter's wheel.	A house,	A couch of bedstead.	A bed.	A hand,	A pearl.	A coral bead.	A festoon.	A row of oblations.	A ring.	A lion's tail.	A couch.	An ele- phant's tooth.	A triangula	Three footsteps.	A drum or	A circle.	A figure with a double face	A couch or	A tabor.
Their figures according to other authors				A temple.				A crescent.*						A lamp.t	A gem.* A pearl.†			An earring.	A couch.	An ele- phant's tooth.‡	A bed.‡	A triangle	A trident.	•		A couch,t or bed.‡	A figure with two faces.	
Number of stars according to SRIPATI, &c.	3	3	ó	8	3	1	4	3	5	5	2	2	3	ı	1	4	4	3	n	2	2	3	3	4	100	2	2	33
Other numbers assigned by different authorities.	2†						2†	15				st				2†	3†		gt	4†	4†	2*		5†				
Relative situation of the principal star; according to the Sūrya Sidd'hānta	N.	S.	5.	E.	N.		E.	Middle.	E.	S.	N.	N.	2d W, of 1st N. W.			N.	Middle,	Middle.	E.	N.	N.	Brightest,	Middle.	w.	Brightest.	N.	N.	s.
Place of the star in 6ths of degrees from the ori-	AX	40	65	57	58	4	78	76	14	54	64	50	60	40	74	78	64	14	6.	4	Middle of the preceding Nacihatra,	End of P	End of U.	Third quar- ter of the last,	So	36	23	79
Its place, in degrees, from the origin of the Ecliptick.	· U	20*	37* 30′	49* 30′	63*	67" 20"	93*	106*	109*	129*	144*	155*	170*	180*	199*	213*	124*	229*	241*	254*	260*	266* 40°	280	290*	310*	326*	3.57*	59* 50'
Its distance from the Ecliptick	10° N.	12° N.	5* N.	5* S.	10* S.	9° S.	6° N.	N.	7° S.	N.	12° N.	13° N.	ır S.	2* S.	37° N.	1° 30 S.	3* S.	4* S.	9* S.	5* 30' S.	5* S.	60 N.	30° N.	36. N.	o 30' S.	24° N.	26° N.	N.
Place of the star in degrees, measured on the Ecliptick, according to BRAHMEGUPTA.	8*	20*	37" 28"	49" 28"	63*	67*	93*	106*	08*	29*	147*	55*	170*	183*	199*	212* 5'	224 5	229* 5*	241*	254*	260	.65*	278*	290*	320*	326*	337*	6o*
Distance from the Ecliptick	10° N.	12* N.	4* 31' N.	4* 33′ S.	to* S.	11* S.	6* N.	N.	η· s.	N.	12 N.	13° N.	m* S.	2* S.	37" N.	r* 23′ S.	1* 44' S.	3* 30′ S.	8* 30' S.	5* 20′ S.	5* S.	62° N.	30* N.	36° N.	o 18' S.	24° N.	26° N.	N.
Place in degrees measured on the Ecliptick, according to the Sidd'hanta Siromani.	8*	20*	37* 28'	49" 28'	63*	67*	93*	106*	(08*	29*	147*	55*	70*	183*	199*	212* 5	224* 5'	229* 5′	241*	254*	260*	.6s*	78*	190*	}20°	;16*	33 <b>7°</b>	6o*
Distance from the Ecliptick	10° N.	12° N.	4" 30' N.	4* 30' S.	10° S.	11* S.	6° N.	N.	7° S.	N.	12* N.	13° N.	11° S.	1* 45′ S.	37* N.	1° 20′ S.	1° 45' S.	3° 30′ S.	8* 30' S.	5 20' S.	5° S	62 N.	30° N.	36° N.	o 20' S.	24° N.	26° N.	N.
Place in degrees measured on the Ecliptick, according to the Graha läghava	8*	at.	38*	49*	62*	66•	94*	106*	107*	29*	148*	55*	70*	183*	198•	212*	124*	a30°	2414 2	55° 2	61.	68*	75*	86•	20*	325*	37"	6o*
Distance from the Ecliptick	10° N.	12* N.	5° N.	5° S.	10* S.	ıı· S.	6° N.	N.	7* S.	N.	12° N.	13° N.	11° S.	2* S.	37° N.	r* S.	a* S.	. 3° S.	8* S.	5* S.	5. S.	)a* N.	30° N.	36* N.	N.	24° N.	27° N.	N.
True longitude, according to the Sidd'hanta	12* 40′	25* 8'	39* 2'	48* 9'	61. 1,	65* 8'	94* 53'	06*	09*	19*	142* 48'	50"	75' 13'	183* 50'	182* 24'	112" 36"	114, 38,	1130° 5′	248" 36" 2	54" 34' 2	60° 21′ 2	51' 10'	80* 3'	94* 12'	19" 15'	335* 8'	48" 44"	59* 50'
True latitude.	10° 50′ N.	12° 55′ N.	4* 44′ N.	4* 40' 5.	10° 12′ S.	11. 7. S.	6° N.		7° 4' S.	-	12° 42′ N.	13* 55' N.	12° S.	1* 52′ S.	41° 5 N.	t* 25' S.	t* 50' S.	3* 28° S.	8° 40′ S.	5* 22' S.	5* S	62° 14′ N .	30" 5'	26° 25' N.	o 45°S.	16° 3′ N.	28° N.	
Star supposed to be meant.	a Arietis.	Musca.	y Tauri. Pleiades	g Tauri. Aldebaran.	λ Orionis.	α Orionis.	β Gemi- norum.	3 Cancri.	Cancri.		Legnis.					gorg Libræ.	& Scorpionis-	<u>a</u> Scorpionis.  Antares.	y or v Scorpionis.	Sagittarii.	- Sagittarii	g Lyrz.	<b>X</b> Aquilæ.	z Delphini.	λ Aquarii.	α Pegasi.	z Andro- medz.	ζ Piscium.

VASISHT'HA, + SACALYA. + Muhurta chintamani.



Arabians: but, in a few instances, they essentially differ. The Hindus have likewise adopted the division of the Ecliptick and Zodiack into twelve signs or constellations, agreeing in sigure and designation with those of the Gracks; and differing merely in the place of the constellations, which are carried on the Indian sphere a few degrees further west than on the Grecian. That the Hindus took the hint of this mode of dividing the ecliptick from the Greeks, is not perhaps altogether improbable: but, if such be the origin of it, they have not implicitly received the arrangement suggested to them, but have reconciled and adapted it to their own ancient distribution of the ecliptick into twenty-seven parts.\*

In like manner, they may have either received or given the hint of an armillary sphere as an instrument for astronomical observation: but certainly they have not copied the instrument which was described by PTOLEMY; for the construction differs considerably.

In the Arabick Epitome of the Almagest entitled Tahriru'lmejesti,† the armillary sphere (Zát ul halk) is thus described. "Two equal circles are placed at right angles; the one representing the ecliptick, the other the solsticial colure. Two pins pass through the poles of the ecliptick; and two other pins are placed on the poles of the equator. On the two sirst pins, are suspended a couple of circles, moving the one

<sup>\*</sup> According to the longitude of the three brightest stars of Aries, as stated by PTOLEMY, viz. 10° 40', 7° 40' and 6° 40', (I quote from an Arabick epitome of the Almagest); the origin of the ecliptick, in the Greek book which is most likely to have become known in India, is 6° 20' from the star which the Hindus have selected to mark the commencement of the ecliptick.

By the celebrated NASIRUDDIN TUSI; from the Arabick version of Is'HAK BIN HU-

within, the other without, the first mentioned circles, and represent ting two secondaries of the ecliptick. On the two other pins a circle is placed, which encompasses the whole instrument, and within which the different circles turn: it represents the meridian. Within the inner secondary of the ecliptick a circle is fitted to it; in the same plane, and turning in it. This is adapted to measure latitudes. To this internal circle, two apertures, or fights, opposite to each other, and without its plane, are adapted, like the fights of an inflrument for altitudes. The armillary sphere is complete when confisting of these six circles. The ecliptick and fecondaries are to be graduated as minutely as may be practicable. It is best to place both secondaries, as by some directed, within the ecliptick, (instead of placing one of them without it,) that the complete revolution of the outer fecondary may not be obstructed by the pins at the poles of the equator. The Meridian, likewife, should be doubled, or made to confist of two circles; the external one graduated, and the internal one moving within it. Thus the pole may be adjusted at its proper elevation above the horizon of any place. The instrument fo constructed consists of seven circles.

"IT is remarked, that when the circle, representing the meridian, is placed in the plane of the true meridian, so that it cuts the plane of the horizon at right angles, and one of the poles of the equator is elevated above the horizon conformably with the latitude of the place; then the motions of all the circles round the poles represent the motions of the universe.

and moon together, the outer secondary of the ecliptick must be made to intersect the ecliptick at the sun's place for that time; and the follitial colure must be moved until the place of intersection be opposite to the sun. Both circles are thus adjusted to their true places; or if any other

be feen in its proper place, on that fecondary referred to the ecliptick; the circle representing the ecliptick, being at the same time in the plane of the true ecliptick and in its proper situation. Afterwards, the inner secondary is turned towards the moon (or to any star intended to be observed), and the smaller circle within it, bearing the two sights, is turned, until the moon be seen in the line of the apertures. The intersection of the secondary circle and ecliptick is the place of the moon in longitude; and the arc of the secondary, between the aperture and the ecliptick, is the latitude of the moon on either side (North or South)."

THE same instrument, as described by Montucla from the text of Prolemy (1. 3. c. 2.),\* consists of fix circles: first, a large circle representing the meridian; next, sour circles united together, representing the equator, ecliptick and two colures, and turning within the first circle on the poles of the equator; lastly, a circle turning on the poles of the ecliptick, surnished with lights and nearly touching, on its concave fide, the circumference of the ecliptick.

The armillary sphere, described by the Arabian epitomiser, differs, therefore, from PTOLEMY's, in omitting the equator and equinoctial colure, and adding an inner secondary of the ecliptic, which, as well as the meridian, is doubled.

According to LALANDE, the astrolabe of PTOLEMY, from which TYCHO BRAHE derived his equatorial armillary, consisted only of four circles: two placed at right angles to represent the ecliptick and solstital

A Hift, des Mathem. 1. p. 301.

colure; a third turning on the poles of the ecliptick and ferving to mark, longitudes; and a fourth, within the other three, furnished with fights to observe celestial objects and measure their latitudes and longitudes.\*

WHETHER the ancient Greeks had any more complicated instrument formed on similar principles, and applicable to astronomical obfervations, is perhaps uncertain. We have no detailed description of the instrument, which Archimedes is faid to have devised to repretent the phenomena and motions of the heavenly bodies; nor any sufficient hint of its construction; the nor does Cicero's account of the sphere exhibited by Posidonius & Suggest a distinct notion of its structure.

Among the Arabs, no addition is at present known to have been made to the Armillary sphere, between the period when the Almagest was translated, and the time of Alhazen, who wrote a treatise of

Vide Claud, epig. Cicero, Tusc. Quas. 1, 1 Nat. Deo. 2. 35.

<sup>\*</sup> LALANDE Aftron. 1. 13. (§ 2279).

<sup>†</sup> If Claudian's epigram on the fubject of it was founded upon any authority, the instrument must have been a fort of orrery, enclosed in glass.

<sup>‡</sup> Cic. Nat. deo. 2. 34.

of Sergius (Montucia 2. p. 304); or rather by Is'hak ben Hunen, whose death is placed about the Hejira year 260 (D'Herbelot p. 456). According to the Cashfulzanun, Is'hak's version was epitomised by Hajaj ben Yusef, by Thabit ben Kabrah, and by Nasiruddin Tusi. Other versions, however, are mentioned: particularly one by Hajaj, said to have been corrected first by Hunen ben Is'hak, and afterwards by Thabit; another by Thabit himself; and a third by Muhi ben yaihyah. A different account is likewise given of the earliest translation of the Almagest, which is ascribed to Abu Hisan and Salman, who are said to have completed it, after the failure of other learned men, who had previously attempted the translation. Mention is also made of a version

optics, in which a more complicated instrument, than that of PTOLEMY, is described. ALHAZEN'S armillary sphere is stated to have been the prototype of Tycho Brahe's; \* but neither the original treatise, nor the Latin translation of it, are here procurable; and I am therefore unable to ascertain whether the sphere, mentioned by the Arabian author, resembled that described by Indian astronomers. At all events, he is more modern, than the oldest of the Hindu writers whom I shall proceed to quote. ‡

THE construction of the Armillary sphere is briefly and rather obfcurely taught in the Súrya sida hánta. The following is a literal translation.

LET the astronomer frame the surprising structure of the terref-

"HAVING caused a wooden globe to be made, [of such fize] as he pleases, to represent the earth; with a staff for the axis, passing through

by IBRAHIM BEN SALAT, revised by HUNEN. But none of these translations are anterior to the 9th century of the Christian era.

Adhibuit (Tycho) Armillare quoddam instrumentum, quod tamen comperi ego positum, et adhibitum olim suisse ante Tychonam ab Alhazeno lib. 7. opt. C. 1. prop. 15 et à Vitell. lib. 10. propos. 49. cujus instrumenti astronomice collocati ope, atque usu, (vide instrumentum multiplex armillare apud Tycho. in Mechanicis Astronomice) candem elevationem falsam 9 scrupulorum invenit, quam per alia, duo diversa instrumenta, compererat.

Bettini Apiaria.

He wrote his treatife on opticks and other works about the year 1100.

Biog Did.

BHASCARA flourished in the middle of the twelfth century; being born, as he himself informs us, in the Suca year 1036, answering to A. D. 1114. But the Surya Sidd hanta is more an

the center, and exceeding the globe at both ends; let him place the supporting hoops, as also the equinoctial circle.

"Three circles must be prepared, (divided for figns and degrees,) the radius of which must agree with the respective diurnal circles, in proportion to the equinoctial: the three circles should be placed for the Ram and following figns, respectively, at the proper declination in degrees, N. or S.; the same answer contrariwise for the Crab and other figns. In like manner, three circles are placed in the southern hemisphere, for the Balance and the rest, and contrariwise for Capricorn and the remaining figns. Circles are similarly placed on both hoops for the afterisms in both hemispheres, as also for Abhijit; and for the seven Rishis, Agastya, Brahme and other stars.

"In the middle of all these circles is placed the equinoctial. At the intersection of that and the supporting hoops, and distant from each other half the signs, the two equinoxes should be determined; and the two-solutions, the degrees of obliquity from the equinoctial; and the places of the Ram and the rest, in the order of the signs, should be adjusted by the strings of the curve. Another circle, thus passing from equinox to equinox, is named the ecliptick; and by this path, the sun, illuminating worlds, for ever travels. The moon and the other planets are seen deviating from their nodes in the ecliptick, to the extent of their respective greatest latitudes [ within the Zodiack]."

THE author proceeds to notice the relation of the great circles before mentioned to the horizon; and observes, that, whatever place be as fumed for the apex of the sphere, the middle of the heavens for that

<sup>.</sup> They are the Colures.

place is its horizon. He concludes by showing, that the instrument may be made to revolve with regularity, by means of a current of water; and hints, that the appearance of spontaneous motion may be given, by a concealed mechanism, for which quicksilver is to be employed. The manner of using this instrument for astronomical observations has been already explained (p. 326).

More ample instructions for framing an armillary sphere are delivered, the Sida'hánta sirómani. The passage is too long for insertion in this place; and I reserve it for a separate article, on account of the explanations which it requires, and because it leads to the consideration of other topicks, \* which cannot be sufficiently discussed in the present essay. A brief abstract of Bhascara's description may here suffice. In the center he places a small globe to represent the earth encompassed with circles for the orbits of the planets arranged like the curved lines in a spider's web. On an axis passing through the poles of the earth, and prolonged on both sides, a sphere, or assemblage of circles, is suspended, by means of rings or tubes adapted to the axis, so that the sphere may move freely on it. This assemblage of circles comprises a horizon and equator adjusted for the place, with a prime vertical and meridian, and two intermediate verticals (intersecting the horizon at the N. E. and S. W. and S. E. points); as also the equinoctial colure. Another cirand N. W. and S. E. points); as also the equinoctial colure. Another cirand

Among others, that of the precession of the equinoxes; respecting which different opinions are stated by Bhascara. It appears from what is said by him, that the notion of a libration of the equinoxes has not universally prevailed among Hindu astronomers. The correctes opinion of a revolution of the equinoctial points was advanced by some authors, but has not obtained the general suffrage of Hindu writers on astronomy.

cle is suspended within this sphere on the poles of the horizon, apparently intended to measure the altitude and amplitude of an object.

ANOTHER sphere or assemblage of circles is in like manner suspended on the pole of the equator. It consists of both colures, and the equinoctial, with the ecliptick adjusted to it; and fix circles for the planetary orbits duly adjusted to the ecliptick; as also fix diurnal circles parallel to the equinoctial, and passing through the extremities of the se figns.

This, though not a complete description of BHASCARA'S armillary sphere, will convey a sufficient notion of the instrument for the purpose of the present comparison; and will justify the remark, that its construction differs greatly from that of the instrument specified by PTOLEMY.

In the description of the armillary sphere cited from the Surya side d'hânta, mention is made of several stars not included in the asterisms which mark the divisions of the ecliptick. The following table exhibits the positions of those, and of the sew other stars which have been particularly noticed by Hindu astronomers.

AL STREET	and Sir	sidd' búnta ómaní.		Lág'hava.	S. Sárva	abbauma.	Súrya S	Súrya Sidd'hánta			
	Lat.	Long.	Lat.	Long.	Lat.	Long.	Lat	Long.			
Agastya;	77° S.	87	76" S.	80	77° 16' S.	85° 5'	80° S.	90"			
Lubd baca, or the hunter,	}40° S.	86*	40° S.	8r•	40° 4′ S.	84" 36"	40° S.	80*			
Agni,	USION F		8° 2. N.	53"	8° 14' N.	57" 4'	8" N.	52°			
Brahmehridaya. Prajapati	a 24 such	- LOS	31" N.	56.	30° 49' N		The state of the s	52" +			
or Brahma	S. Noon		39° N.	61	38° 38'N.		38° N.	571			
Apamvalsa	Continue		3° N.	183"	3 N.	183*	3° N.	180*			
Apas		Act No.		Sthing Is	HOTELO !	At many	o N.	180			

t The Sácalya fanhitâ and Tatwa vivêca agree with the Sûrya fidd bânta as to the politions of the first four stars. They omit the other three.

the state of the s	Acco	According to the						
The seven Rishis	Sác	Sacalya Sanhitá						
The same that the same and the		Lat.						
CRATU		55° N.						
Pulaha		50° N.						
PULASTYA	Litter	50° N.						
A	-	56° N.						
ANGINA		57° N.						
WASISHT'HA	-	60° N.						
Marichi		60° N.						

Here Agastya is evidently Canopus; as Luba'haca is Sirius. Brahmehridaya seems to be Capella, which was shown, under that Indian name, to Dr. Hunter at Ujjayini. Agni may be the bright star in the northern horn of the bull (\$Tauri): Prajapati is perhaps the star on the head of the waggoner (\$Aurigæ). The distances of the three last mentioned stars from the celiptick do not exactly agree with the places stated; but no conspicuous stars are found nearer to the assigned positions: and it may be remarked, that they are all nearly in the longitude of the Nacshatra Mrigasiras corresponding to the head of Orion; and that the latitude, assigned to them by Hindu astronomers, is as much too small, as that of Mrigasiras is too great:

THE star, mentioned in the Súrya sidd'hánta under the name of Ápas or water, is doubtless & Virginis; and Apamvatsa comprises the nebulous stars in the same constellation, marked b 1. 2. 3.

ASTRONOMERS give rules for computing the heliacal rifing and fetting of the star Agastya, on account of certain religious ceremonics to be performed when that star appears. VARAHA MIHIRA says, "Agaflya is visible at Ujjayini, when the sun is 7° short of the sign Virgo." But he afterwards adds, that the star becomes visible, when the sun reaches Hasta, and disappears when the sun arrives at Rohini." His commentator remarks, that the author has here followed earlier writers; and quotes Parasara saying "When the sun is in Hasta, the star rises; and it sets when the sun is in Rohini." BHATTOTPALA cites from the five Sidd'hántas a rule of computation, analogous to that, which will be forthwith quoted from the Bháswati; and remarks, that three periods of Agastya's heliacal rising are observed, viz. 8th and 15th of Aswina and 8th of Cártica.

The Bháfwatí directs the day of Agaflya's rifing for any particular latitude to be found by the following rule. 'The length of the shadow of a gnomon † at a particular latitude, on the day of the equinox, is multiplied by 25; and to the product oco are added; the sum, divided by 225, gives in signs and degrees the place of the sun, on the day, when Agastya rises or appears in the south, at the close of night.' The commentator adds, that 'the day of the star's setting may be computed by deducting the sum sound as above, from 1350; the difference reduced to signs and degrees, is the place of the sun, on the day, when Agastya sets in the southwest.' According to these rules, Agastya in latitude 26° 34', rises when the sun is in 4° 20° and sets when the sun is in 1° 10°.

The Grahalág'hava teaches another method of calculation. The length of the shadow of the gnomon is multiplied by 8, and the pro-

<sup>\*</sup> युष्यतेसिकलहस गतेकीरोहिसीमुपगतेसम्पेतिः

f In duodecimal parts.

dust is added to 98 for the sun's place in degrees, on the day when Agastya rises; or is deducted from 78, to find the sun's place when that star sets. By this rule, the star should rise, in latitude 26° 34', when the sun is at the 26th degree of the lion, and should set when the sun quits the ram. Accordingly, the Bhavishya and the Brahmevaivarta Puranas ordain oblations for Agastya three days before the sun reaches the Zodiacal sign Virgo; though the inhabitants of the province of Gaura, as observed in the last mentioned Purana, perform this ceremony three days earlier.

In regard to the passages above quoted, it may be remarked, that the rule, stated in the Bhāswati, implies the distance of three signs, from the beginning of Aries, to Agastya, and supposes the star to become visible when distant one sign from the sun. But the rule, delivered in the Grahalág'hava, places the star at the distance of 88° from the beginning of Mésha, and supposes it visible in the right sphere, when 10° distant from the sun. According to the quotation from Parasara, the right ascension of the star must have been, in his time, not less than 100° reckoned from the beginning of Mésha; and the star, rising cosmically, became visible in the oblique sphere, at the distance of 60° from the sun; and disappeared, setting achronically, when within that distance. Making allowance therefore for the star's proper motion, and change of declination and right ascension, it remains probable, that Parasara's rule was framed for the north of India, at a period when the solitical points were, as stated by that author, in the middle of Assessant and beginning of Dhanisht'ha.\*

I HAVE purposely reserved for separate consideration the seven Rishis,

<sup>.</sup> As. Res. vol. 2. p. 393-

who give name to feven stars in Ursa major: not only because their pofitions are not stated by BRAHMEGUPTA, BHASCARA, and the Súryafidd hánta, but also because the authors, who give their positions, as, cribe to them a particular motion, or variation of longitude, different from other stars, and apparently unconnected with the precession of the equinoxes.

the subject of this supposed motion of the Rishis. He begins by announcing the intention of stating their revolution conformable with the doctrine of Vriod'ha Garga, and proceeds as follows. "When king Yud'hist'hira ruled the earth, the Munis were in Maghá, and the period of the era of that king is 2526 years. They remain for a hundred years in each afterism, being connected with that particular Nacshatra, to which, when it rises in the east, the line of their rising is directed."

THE commentator, BHATTÓTPALA, supports the text of his author by quotations from VRIDD'HA GARGA and CASYAPA. "At the junction of the Cali and Dwapar ages," says GARGA, "the virtuous sages who delight in protecting the people, stood at the asterism, over which the Pitris preside." That is at Maghá. "The mighty sages," says

कासन्मधास् मुन्यः शासितृयीं य्चिष्टिरे नृपते॥ षर्दिकपंचिद् युतः शककालस्यराज्यस्य॥ एककस्मिन्स्र दोशतंश्तंते चरित्तवपाशा म्॥ प्रा ग्रथते। इसविवराद्नुद्यंतत्रसंयुक्ताः

According to a differnt reading noticed by the commentator, the concluding hemistich fignifies "they constantly rife in the northeast; together with ARUND HATI."

K ।गुत्ररतञ्चेतेसदोदयंतेससाध्वीकाः।

CASYAPA, "abide during a hundred years in each afterism, attended by

THE author next states the relative situation of the seven Rishis, with ARUND'HATS near her husband VASISHT'HE: and the remainder of the Chapter is devoted to astrology.

THE revolution of the feven Rishis, and its periods, are noticed in The following passage is from the Sri Bhagavata.\*

- auguration of NANDA, 1115 years will elapfe.
- "Or the seven Rishis, two are first perceived, rising in the sky; and the asterism, which is observed to be at night even with the middle of those two stars, is that, with which the Rishis are united, and they remain so during a hundred years of men. In your time, and at this moment, they are situated in Maghá.
- "WHEN the splendor of VISHNU, named CRISHNA, departed for heaven, then did the Cali age, during which men delight in sin, invade the world. So long as he continued to touch the earth with his holy feet; so long the Cali age was unable to subdue the world.
- WHEN the feven Rishis were in Maghá, the Cali age comprising 1200 [divine] years + began; and when, from Maghá, they shall reach Purváshádha, then will this Cali age attain its growth under NANDA and his successors."

<sup>\*</sup> Book 12. C. 2.

<sup>† \32000</sup> common years.

THE commentator SRID'HARA SWAMI remarks, that the constellation, consisting of seven stars, is in the form of a wheeled carriage, Marichi, he observes, is at the extremity; and next to him, Vasisht'ha in the arched part of the yoke; and beyond him Angiras: next to whom are four stars in a quadrangle: Atri at the northeast corner; south of him Pulastya; next to whom is Pulaha; and Cratu is north of the last. Such being their relative position, the two stars, which rise sirst, are Pulaha and Cratu; and whichever afterism, is in a line south from the middle of those stars, is that with which the seven Rishis are united; and they so remain for 100 years.

A SIMILAR passage is sound in the Vishnu Purana,\* and a similar exposition of it is given by the commentator RATNAGARBHA: but the period, there stated to elapse between the birth of PARICSHIT and the inauguration of NANDA, is 1015 years only.

THE Matsya Purana contains a passage to the like effect; but allows 1050 years from the birth of Paricshit to the inauguration of Maha-Padma: and the seven Rishis are stated as being in a line with the constellation sacred to sire (that is Crittica), 836 years later, in the time of the Andhra kings.

In the Brahme fidd'hanta of Sacalya, denominated from its reputed author Sacalya fanhita, the supposed motion of the seven Rishis is thus noticed: the At the commencement of the yuga, CRATU was near the star sacred to Vishnu (Sravana), at the beginning of the assertion. Three degrees east of him, was Pulaha; and Pulastya, at ten degrees.

Vegacco common years.

<sup>\*</sup> Part 4. Ch. 2; . v. 32. &c.

<sup>†</sup> Prasna 2. ch. 2.

from this; Atri followed at three degrees from the last; and Angiras, at eight degrees from him; next came Vasisht'ha, at the distance of seven degrees; and lastly Marichi at ten. Their motion is eight liptas (minutes) in a year. Their distances from the ecliptick, north, were espectively 55°, 50°, 50°, 56°, 57°, 60° and 60°. For, moving in the north into different positions, the sages employ 2700 years in revolving through the assemblage of asterisms: and hence their positions may be easily known at any particular time."

LALLA, cited by Muniswara in his gloss on the Siromani, says "If the number of years of the Cali age, less fourteen, be divided by 100, the quotient, as the wise declare, shows the afterisms traversed by Marichi and other celestial sages, beginning from the afterism of Viranchi (Brahma)."

HERE LALLA is generally understood to mean Röhini, which is facred to Prajápati (or Brahmá). But Muniswara has remarked, in another place, that Lalla may intend Abhijit which is facred to Vid'hi or Brahma; and consequently may mean Sravaná, of which Abhijit forms a part: and thus Lalla and Sacalya may be reconciled.

Most of the commentators on the Súrya sidd'hánta and Sirómani are filent on the subject of the seven Rishis. But Nrisinha, in his Vártica to the Vásaná Bháshya or gloss on the Sirómani, quotes and expounds the Sácalya Sanhita, and rejects Varaha's rule of computation, as disagreeing with Puránas. Muniswara, in his commentary on the Sirómani, cites some of the passages above noticed, and remarks, that Bhascara has omitted this topick on account of contradictory opinions concerning it, and because it is of no great use.

The same author, in his own compilation entitled Sidithanta Sarva-bhauma, has entered more fully into this subject. He observes, that the seven Rishis are not, like other stars, attached by spikes to the solid ring of the ecliptick; but revolve in small circles round the northern pole of the ecliptick, moving by their own power in the etherial sphere above. Saturn, but below the sphere of the stars. He places the Rishis in the same relative positions, which Sacarva had assigned to them; states in other terms the same distances from the ecliptick, and the same annual motion; and directs their place to be computed by deducting 600 from the years of the Casi age, doubling the remainder and dividing by sisteen: the quotient, in degrees, is divided by 30, to reduce it into signs. Muniswara supports this mode of calculation on the authority of Sacarva, against Varaha minira and Lalla; and affirms, that it agrees with the phenomena, as observable at the period of his compilation. It appears, however, to be a correction of Sacarra's rule.

Camalacara, in the Tatwavivéca, notices the opinion delivered in the Siddhanta Sárvabhauma; but observes, that no such motion of the stars is perceptible. Remarking, however, that the authority of the Puránas and Sanhitás, which affirm their revolution, is incontrovertible, he reconciles faith and experience by saying, that the stars themselves are fixed; but the seven Rishis are invisible deities, who perform the stated revolution in the period specified.

IF CAMALACARA's notion be adopted, no difficulty remains: yet itcan hardly be supposed, that VARAHA MIHIRA and LALLA intended to
describe revolutions of invisible beings. If then it be allowed, that they
have attributed to the stars themselves an imaginary revolution grounded
on an erroneous theory, a probable inference may be thence drawn as to
the period when those authors lived, provided one position be conce-

ded: namely, that the rules, stated by them, gave a result not grossly wrong at the respective periods when they wrote. Indeed it can scarcely be supposed, that authors, who, like the celebrated astronomers in question, were not mere compilers and transcribers, should have exhibited rules of computation, which did not approach to the truth, at the very period when they were proposed.

If this reasoning be admitted, it would follow, that VARAHA MIHIRA composed the Várahí sanhitá about 2800 years after the period assigned by him to the commencement of the reign of Yudhishthera, or near the close of the third century after the expiration of Yudhishthera's era as defined by him. For the circle of declination passing between Cratu and Pulaha (the two first of the seven Rishis), and cutting the ecliptick only 2° short of the beginning of Maghá, was the solstitial colure, when the equinox was near the beginning of Crittica; and such probably was the reason of that line being noticed by ancient Hindu astronomers. It agrees with the solstitial colure on the sphere of Eudoxus, as described by Hipparchus.\* A similar circle of declination, passing between the same stars, intersected the ecliptick at the beginning of Maghá, when the

<sup>\* &</sup>quot;HIPPARCHUS tells us, that Eudoxus drew the colore of the folflices, through the middle of the Great Bear; and the middle of Cancer; and the neck of Hydrus; and the flarbetween the poop and mast of Argo; and the tail of the South Fish; and through the middle of Capricorn, and of Sagitta; and through the neck and right-wing of the Swan; and the lest hand of Cepheus: and that he drew the equinoctial colore through the lest-hand of Arctophylax; and along the middle of his body; and cross the middle of Chelæ; and through the right-hand and fore-knee of the Centaur; and through the flexure of Eridanus and head of Cetus; and the back of Aries across, and through the head and right-hand of Perseus.' Sir I. Newton's Chronology. §. 29. Hipparch. ad. Phænom. in Petavii Uranologia p. 207, 208. Bailly, Ast. Anc. p. 506. Costard, p. 136.

folfitial colure was at the middle of Assista; and a like circle passed through the next asterism, when the equinox corresponded with the first point of Mesha. An astronomer of that period, if he were apprized of the position assigned to the same stars by Garga reputed to have been the priest of Crishna and the Pándus, might conclude with Varaha Mihira, that one revolution had been completed, and that the stars had passed through one Nacshatra of the second revolution. In corroboration of this inference respecting the age of Varaha Mihira's astrological treatise, it may be added, that he is cited by name in the Pancha tantra, the original of the sables of Pilpay, which were translated for Nushirvan more than 1200 years ago.\*

THE theory being wholly unfounded, VARAHA MIHIRA'S rule of computation foon ceafed to agree with the phenomena, and other rules have been fuccessively introduced by different authors, as LALLA, SACALYA and lastly MUNISWARA; whose rule, devised less than two hundred years ago, does not yet grossly betray its insufficiency.

This pretended revolution of the stars of Ursa Major is connected with two remarkable epochas in Indian chronology; the commencement of the Cali yuga, or sinful age, in the reign of Yud'hisht'hira; and its prevalence, on the failure of the succession of Chatriya princes, and establishment of a different dynasty, 1015 years after the birth of Paricshit, according to the Vishnu Purana; or 1115 years, according to the Bhagavata; but 1408 years, if a correction, which has been proposed by Srid'hara Swami and some other commentators, be admitted. This

<sup>\*</sup> PREFACE to the Sanscrit edition of the Hitopadesa. p. xi.

fubject has been already noticed by Capt. WILFORD in his effay on VICRA-MADITYA; and it is, therefore, unnecessary to enlarge upon it in this place.

It has been noticed, towards the beginning of the prefent essay, that the principal star of each Nacshatra, is denominated Yogatara. Perhaps it may not be supersluous to caution the reader against consounding these yoga stars with the yogas, of which a list is inserted in Sir W. Jones's Treatise on the Indian Zodiack.\* They are mentioned by him as divisions of the ecliptick: but it will presently appear, that they cannot in strictness be so denominated. Their principal purpose regards astrology; but they are also employed in regulating certain moveable seasts; and they are of such frequent use, that every Indian Almanack contains a column specifying the yoga for each day, with the hour of its termination.

The yoga is nothing else than a mode of indicating the sum of the longitudes of the sun and moon. The rule for its computation, as given in the Súrya Sidd'hánta, Bháswiti and Graha làg'hava, directs, that the longitude of the sun be added to the longitude of the moon; and the sum, reduced to minutes, is to be divided by 800 (the number of minutes in 13° 20'): the quotient exhibits the elapsed yogas, counted from Vishcumbha. † It is obvious therefore, that the yogas are twenty-seven divisions of 360° of a great circle, measured upon the ecliptick.

<sup>\*</sup> As Res vol. 2. p. 302.

<sup>† 1</sup> Vishcumbha. 2 Príti. 3 Ayushmat. 4 Saubhágya. 5 Sóbhana, 6 Atiganda. 7 Sucarman. 8. Dhriti. 9 Súla. 10 Ganda. 11 Vridd'hi. 12 Dhruva. 13 Vyághá-ta. 14 Hershana. 15 Vajra. 16 Sidd'hi. 17 Vyatipáta. 18 Varíyas. 19 Parigha. 20 Siva. 21 Sidd'ha. 22 Sádhya. 23 Subha. 24 Sucla. 25 Brahman. 26 Aindra. 27 Vaidhriti.

But, if they be represented on a circle, it must be a moveable one in the plane of the ecliptick.

ASTROLOGERS also reckon twenty-eight yogas, which correspond to the twenty-eight Nacshatras or divisions of the moon's path; varying, however, according to the day of the week. As the Indian Almanacks fometimes appropriate a column to the moon's yoga for each day, I shall insert in a note a list of these yogas, with the rule by which they are determined.\*

\* 1 Ananda. 2 Cáladanda. 3 Dhúmra. 4 Prajápati. 5 Saumya. 6 Dhwáncsha, 7. Dhwaja. 8. Srivatsa. 9. Vajra. 10 Mudgara. 11 Ch'hatra. 12 Maitra. 13 Mánasa. 14 Padma. 15 Lambuca. 16 Utpáta. 19 Mrityu. 18. Cána. 10 Sidd'hi. 20 Subha. 21 Amrita. 22 Musula. 23 Gada. 24 Matanga. 25 Rácshasa. 27 St'hira. 28 Pravard'ha.

THE foregoing lift is extracted from the Ramamula of SRIPATT. He adds the rule by which the yogas are regulated. On a Sunday, the Nachatras answer to the yogas, in their natural order; vizt. Aswini to Ananda, Bharani to Caladanda &c. But, on a Monday, the first yoga (Ananda) corresponds to Mrigasiras, the second to Ardra, and so forth. On a Tuesday, the Nacshatra, which answers to the first yoga, is Aslesha; on Wednesday, Hasta; on Thursday, Anurad'ha; on Friday, Uttarashad'ha; and on Saturday, Satabhisha.

ALMANACKS usually contain another fet of astrological divisions of the lunar month, which it may be proper to explain. They are denominated Carana; and confift of feven variable and four invariable, as in the fubjoined lift.

## Variable Caranas. Invariable Caranas,

- Bava.
- Balava.
- Caulava,
- Taitila.
- & Gara,
- 6 Vanij.
- Vishti.

- Sacuni.
- 2 Chatushpad,
- 3 Naga.
- 4 Cintughna,

ANOTHER topick, relative to the Zodiack, and connected with aftrology, remains to be noticed. I allude to the Dréshcánas answering to the Decani of European Astrologers. The Hindus, like the Egyptians and Babylonians, from whom that vain science passed to the Greeks and Romans, divide each sign into three parts, and allot to every such part a regent exercising planetary influence under the particular planet whom he there represents.

The description of the 36 Dreshcanas is given towards the close of Varahamihira's treatise on the casting of nativities, entitled Vishat Jataca. It is here translated conformably with the gloss of Bhattót-Pala: omitting, however, some variations in the reading of the text, which are noticed by him; but which can be of no use, unless occasion should arise for reference to them in comparing the description of the Drishcanas with some amulet or ancient monument in which the Decani may be supposed to be sigured. Even for that purpose, the following description will probably suffice.

I [MARS] A man with red eyes, girt round the waist, with a white cloth, of a black complexion, as formidable as able to protect, holds a raised battle axe.

2 [The Sun] A female clad in red apparel, with her mind fixed on wearing ornaments, having a mare's head, and a belly like a jar, thirsty

They answer successively to half a Tit'hi or lunar day; Cintughna being always assigned to the first Tit'hi; and the variable Caranas afterwards succeeding each other regularly, through eight repetitions: they are followed by the three remaining invariable Caranas, which conclude the month; Chatuhpad and Naga appertaining to Amavasya or the new moon, and Sacuni being appropriated to the latter half of the preceding Tit'hi.

and resting on one foot, is exhibited by YAVANA as the figure of the Dresheana in the middle of Mesha.\*

- 3 [JUPITER] A fierce and wrathful man, conversant with arts, of a tawny complexion, solicitous of action, but unsteady in his resolves, holds in his hands a raised stick, and wears red clothes. He is the third in the tripartite division of Mesha.
- 4 [VENUS] A woman with hair clipped and curled, a body shaped like a jar, her clothes burnt, herself thirsty, disposed to eat, and fond of ornaments: such is the figure of the first in Višshaha.
- 5 [Mercury] A man with the head of a goat, and a shoulder like a bull, clothed in dirty apparel, skilful in regard to the plough and the cart, acquainted with field, grain, house, and kine, conversant with arts; and, in disposition, voracious.
- 6 [SATURN] A man with a body vast as an elephant's, and feet great as a Sarabha's, with white teeth and a tawny body, his mind busied upon the wool of wild sheep, occupies the extremity of the sign Taurus.
- 7 [Mercury] Such as are conversant with the subject, declare the first in the tripartite partition of the third sign, to be a woman fond of working with the needle, beautiful, delighting in ornaments, childless, amorous, and with her arms elevated.
  - 8 [VENUS] In the middle of the fign Gemini is a man, with the face

<sup>\*</sup> मेषमधे द्रेष्ट्याग्रन्पंयवनापदिष्टं॥ BHATTÓTFALA expounds this " declared by YAVANÁCHÁRYA" यवनाचायै: कथिनम्

<sup>†</sup> A monster with eight legs, who destroys elephants.

of a Garuda, \* standing in a grove: he is an archer clad in armour, and holds a bow, he meditates on sport, his children, ornaments and wealth.

g [SATURN] At the end of the fign Gemini is a man decorated with ornaments, having as many gems as the ocean contains; clad in armour and furnished with bow and quiver; skilled in dance, musick and fong, and practifing poetry.

WITHE MOON The wife declare the first in Cancer to be an animal with the body of an elephant, the feet of a Sarabha, a boar's head and horse's neck, standing in a grove under a Sandal-wood tree, and upholding leaves, root and fruit.

11 [MARS] In the middle of the fign Cancer, a woman, in prime of youth, with bloffoms of lotos on her head, attended by a ferpent, cries, while standing in a forest, resting against the branch of a Palasa ‡ tree.

decorated with golden ornaments, and, embarking on a vessel and encompassed by serpents [twined round him,] he traverses the ocean to seek ornaments for his wife.

13 [The Sun] A vulture and shakal stand on a cotton tree: § a dog is near: and a man, in a squalid dress, laments for his father and mother: this representation is pronounced to be the first of the Lion.

14 [JUPITER] A man formed like a horse, bearing on his head a garland of yellowish white slowers, wears a leather dress: unconquered

<sup>\*</sup> An eagle: or else a gigantick crane. Perhaps a vulture.

<sup>†</sup> Santalum Album five Sirium myrtifolium.

<sup>‡</sup> Butea frondofa.

<sup>6</sup> Bombax heptaphyllum.

like a Lion; armed with a bow; and distinguished by a hooked nose, he is placed in the middle of Leo.

- 15. [MARS] The third in the tripartite division of Leo, is a man having the head of a hear, with a long beard and curled hair; in disposition similar to an ape; and holding a staff, fruits and sless.
- 16. [MERCURY] A damfel, bearing a jar filled with bloffoms, (her person clothed in apparel soiled with dirt), solicitous for the which of dress with opulence, is going towards the family of her spiritual parent: such is the first of Virgo.
- 17. [SATURN] A man of a dark complexion, with a cloth on his head, holds a pen, and is casting up accounts of receipts and disbursements: he bears a large bow, and his body is covered with hair: he is placed in the middle of the fign.
- 18. [VENUS] A woman of a fair complexion, dreffed in bleashed filk, tall, holding in her hand a jar and ladle; is devoutly going towards a temple of the gods: the wife pronounce this to be the last of Virgo.
- 19. [Venus] A man is proceeding along the middle of a highway; holding a balance, and having weights in his hand; he is skilled in meafuring and meting, and meditates on commodities and their prices. The Yavanas declare this form to be first of Libra.\*
- pot, is anxious to proceed, being hungry and thirsty; in thought, he visits his wife and son. He is middlemost of the balance-bearer (Libra).

<sup>\*</sup> तर्पंदितियवनीः प्रथमंतुलायाः This might fignify "YAVANA declares;' for the plural is used in Sanscrit respectfully; and Ebattotpala has before expounded यवन as intending YAVANACHARVA: but a different explanation occurs a little lower.

- bearing a golden quiver and armour, and carrying fruits and flesh, is searing deer, in a forest: such is the figure exhibited by the Yavanas.\*\*
- the great ocean, to the shore; she has fallen from her place; round her feet are serpents entwined; but she is pleasing. Such is the first of the sign Scorpio.
- 23. [JUFITER] A woman, with a body like a tortoise and a jar, and with serpents entwined round her person, is solicitous to prepare local comforts for her husband. This figure the wise pronounce to be the middle one of Scorpio.
- 24. [The Moon] The list of the Scorpion is a lion with a large and stooping head resembling that of a tortoise; he guards the place where Sandal-wood grows, terrifying dogs, deer, boars and shakals.
- man, holding a large bow, stands near a hermitage and devoutly guards the implements of facrifice: such is the first of the three divisions of the bow (Sagittarius)
- 26. [Mars] A pleasing semale, of golden complexion like the Champaca, moderately handsome, sits on a throne, distributing marine gems. This is described as the middle division of the bow.
- 27. [THE SUN] A man with a long beard, of a complexion yellow

<sup>\*</sup> धर्नेन्दाह्तः Which Внатто'трака expounds " declared by the ancient Yavanas."
प्राणायवनः

Michelia Champaca,

like the Champaca, is fitting on a throne with a staff in his hand: he wears filk raiment and a deer's skin. Such is the third sigure of the ninth sign.

- 28. [SATURN] A man, of a terrible afpect, with the body of a hog, hairy, having tulks like a Macara,\* holds a yoke, a net and fetters. He is first of Capricorn.
- 29. [Venus] In the middle of Macara is a woman skilled in mufick, with eyes large like the petals of the lotos, and with a dark complexion. She seeks various things: she is decorated with jewels; and wears metallick ornaments in her ears.
- 30. [Mercury] A man, shaped like a Cinnara, t clothed in a woolen cloth, and furnished with quiver, bow and armour, bears on his shoulder a jar adorned with gems: he is last of the sign Macara.
- 31. [The Sun] The first of the jar (Aquarius) is a man with the head of a vulture, clothed in filk and wearing an antelope's hide with a woollen cloth: his mind is busied in obtaining oil, ardent spirits, water and food.
- 32. [Mercury] In a burnt carriage, a woman clad in foiled apparel, bearing veffels on her head, is collecting metals in a forest containing cotton trees.
- 33. [Venus] A man of a dark complexion, with hairy ears, adorned with a diadem, carries and transports vales with articles of metal, and with bark, leaves, gum and fruit. He is last of Cumbha.

<sup>\*</sup> A fea monster. Perhaps the Narwhal may be intended.

<sup>4</sup> A human figure with the head of a horse.

- 34. [JUPITER] The first of the fish [Pisces] navigates the sea in search of ornaments for his wife: he has jewels, and his hands are full of vessels used in sacrifice, together with pearls, gems, and shells.
- 35. [The Moon] A woman, surpassing in complexion the blossom of the Champaca, ascends a ship with losty masts and slags; and approaches the shore of the sea, accompanied by her retinue. This is declared by to be the second in the tripartite division of Mina.
- 36. [MARS] Near a cavern, in a forest, a naked man, with serpents entwined round his body, and tormented by robbers and fire, laments. He is the last of the fish.

ARABIAN astronomers in like manner divide each sign of the Zodiack into three parts, denominated Wojeh (,) or in the plural Wujuh (,), which severally belong to the different planets thence called Rab ul wajeh. The proper import of the term , is face or countenance; agreeing with the Greek spaceto, which is similarly employed in this acceptation.

The near correspondence of the Dreshcanas with the Decani of Roman authors and Askava of Grecian writers will be evident from the following passage of Manilius, supported by quotations from other authors, which I shall insert on the faith of Saumaise; the original works, from which they are taken, not being here procurable.

In the following order, beginning from Aries: viz. Mars, the Sun, Venus, Mercury, the Moon, Saturn, Jupiter, Mars, the Sun, &c.
 Ikhwanu'l Safa.

<sup>†</sup> Firmici Mathefis feu Aftron. vide infra.

<sup>\$</sup> Salmafii Plinianæ Exercitationes. p. 652.

#### MANILIUS Tays #

Quam partem decimam dixêre Decania gentes;
A numero nomen positum est, quòd partibus astra
Condita tricenis propria sub sorte seruntur,
Et tribuunt denas in se cocuntibus astris,
Inque vicem terris habitantur sidera Signis.

HEPHESTION expressly declares, that "each fign of the Zodiack is divided into three Decani comprising ten degrees each: the first division of Aries is named Chontare; the second Chontachre, and the third Sicet."

FIRMICUS idiffers in the names, and does not allow ten complete degrees to each Decanus. Thus, in the fign Aries, the three first degrees are, according to him, unappropriated; the five next belong to the first Decanus named Asitan; the next nine are vacant; and the four following appertain to the second Decanus Senacher: five degrees are again unoccupied; and the four last belong to the third Decanus Sentacher.

WE learn from PSELLUS & that the feveral Decani were figured with different attributes and dreffes; and, from DEMOPHILUS and FIRMICUS ! that they represented the planets. The first appertained to Mars; the fe-

<sup>• 1. 4. 298-302.</sup> 

τ και ές το δ μέν πράτος χουίαρε, δ δε δεύτερος χουίαχος, δ τρίτος σικέτ.

<sup>\$</sup> Salmasii Plin. Exerc. p. 653.

<sup>§</sup> ἀσί γαρ ἐν ἐκάς φ των ζωδίων τρᾶς κατειλεγμένοι Δεκανοὶ ποικιλόμος Φοι, ο΄ μεν κατέχων πέλεκυν, ὀδ΄ ἀς ἄλλο τι ἐσχημαθισμένος ἄκασμα. ὧν ἀ τὰ ἄδη καὶ τα σχήμαθα δακτυλίων ἐγγλύψεις «Φενδόναις ἀποτρόπαια δεινῶν Φαιήσεται. Ἰαῦθα μενὶ δ΄ υν ο΄ Τεῦκρος καὶ οἱ καθὶ ἐκᾶνον περετθοὶ τὰ μετέωραὶ

<sup>||</sup> Primum προσωπου est is planeta cujus signum est: secundum πρόσωπου planeta sequens: et sie deinceps. Aries est Martis primum πρόσωπου, secundum Solis, tertium Veneris, juxta serio errantium. This agrees precisely with the Arabian 🚜 3

cond to the Sun; and the third to Venus (the Hindu author fays Jupiter). This astrological notion was confessedly received from foreign nations. The doctrine feems to be ascribed by FIRMICUS to NEKEPSO king of Esypt; \* and Psellus cites a Babylonian author, whom be calls Teucen; and who is also noticed by PORPHYRIUS: bendes, the names of the Decani, stated by HEPHESTION and FIRMICUS, are decidedly barbarous. It was not, therefore, without reason, that SAUMAISE and KIRCHER fought a derivation of the word Decanus itself from a foreign language. It cannot be deduced, as SCALIGER proposes, from the fimilar term for an inferior officer commanding ten men; t fince this office and its defignation were first introduced later than the time of MANILIUS, by whom the aftrological term is employed; and PORPHYRIUS expressly affirms that the word was used by those whom he denominates "ancients." t HUET, not concurring in either of the opinions abovementioned, supposes the term to have been corruptly formed by the astrologers of Alexandria from the Greek numeral with a Latin termination & If this be admitted, it still remains not improbable that some affinity of sound, in the Egyptian or in the Chaldaick name, may have fuggested the formation of this corrupt word,

THE Sanscrit name apparently comes from the same source. I do not suppose it to be originally Sanscrit; since, in that language, it bears no etymological signification. For the same reason, it is likely, that the astrological doctrine itself may be exotick in India. One branch of

<sup>\*</sup> Sic et Nekepso Ægypti justissimus Imperator, et Astrologus valde bonus, per ipsos Decanos omnia vitia valetudinesque collegit, ostendens quam valetudinem quis Decanus efficeret, &c.

<sup>†</sup> Erant Decani denis militibus propositi. Veget. 2. 8.

<sup>\*</sup> Τ ο σς τινας ἐκάλἐσαν δεκανούς οἱ παλαιοὶ.

Yuetil animadversiones ad Manilium. Lib. iv. v. 198.

astrology, entitled Tajaca, has been confessedly borrowed from the Arabians: and the technical terms used in it, are, as I am informed by Hindu astrologers, Arabick. The casting of nativities, though its practice is of more ancient date in India, may also have been received from Western astrologers; Egyptians, Chaldeans, or even Greeks. If so, it is likely, that the Hindus may have received astronomical hints at the same time.

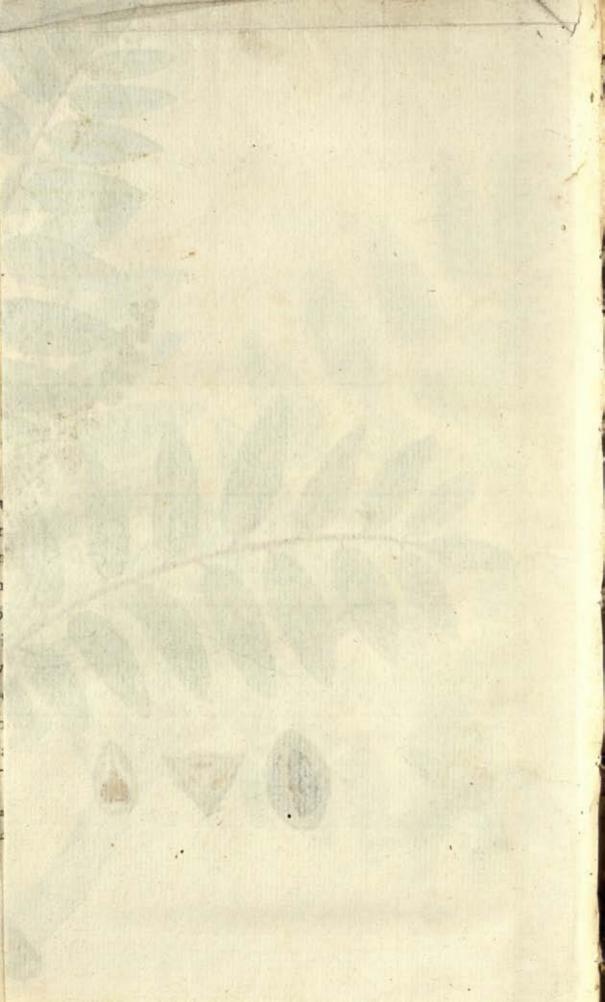
By their own acknowledgment, \* they have cultivated astronomy for the sake of astrology; and they may have done so, with the aid of hints received from the same quarter, from which their astrology is derived. In the present instance Varaha Mihera himself, as interpreted by his commentator, quotes the Yavanas (meaning perhaps Grecian authors), in a manner which indicates, that the description of the Dresseanas is borrowed from them.

The name of Yavanacharya, who is cited by Bhatttópala, would not be alone decifive. He is frequently quoted by Hindu aftronomers: and it is possible, though by no means certain, that, under this name, a Grecian or an Arabian author may be intended. To determine that point, it will be requisite (unless the work attributed to him be recovered) to collect all the passages, in which Yavanacharya is cited by Sanscrit authors; and to compare the doctrines ascribed to him with those of the Grecian and Arabian writers on Astronomy. Not being prepared for such a disquisition, I shall dismiss this subject, for the present, without offering any positive opinion on the question, which has been here proposed.

<sup>\*</sup> BHASCARA expressly says "By ancient astronomers, the purpose of the science is deelared to be judicial astrology; and that, indeed, depends on the influence of consigurations; and these, on the apparent places of the planets."

Gólád hyáya. 1. v. 6.





#### VII.

#### On OLIBANUM or FRANKINCENSE.

# BY H. T. COLEBROOKE, Esq.

IT is generally agreed, that the Gum-refin, called Olibanum, is the Frankincense which was used by the Ancients in their religious ceremonies. But there is not the same agreement as to the plant supposed to produce it. Linnæus has referred it to a species of Juniper: \* and accordingly botanists of his school, † and the Chemical writers, ‡ concur in affirming, that Olibanum is the produce of the Lycian Juniper. But this tree is native of the south of France, as well as the Levant and Siberia: and the French Botanists deny, that it yields the refinous Gum in question; § and remark, that Linnæus made the affertion without proof. Their remark is, I believe, well sounded. No proof appears to have been alledged; and both Niebuhr and Bruce confidered it as an undecided question, which they endeavoured, though unsuccessfully, to investigate. I therefore apprehend, that the evidence, which will

<sup>\*</sup> His pupil Gahn, in a treatife on officinal plants, written and published in 1753 and inserted in Fund. Bot. vol. 2, has so stated it, without specifying the species. This was probably grounded on the Materia Medica of Linneus published in 1749. Murray cites that work of Lineus, for the observation, that it is yet uncertain whether Olibanum be produced from the Juniperus Lycia. Appar. Medic. T. 1. p. 55.

<sup>+</sup> Martyn's Botan. Dict.

<sup>‡</sup> Fourcroy, Syst. Chim. T. 8. p. 30. Thompson, 4. p. 344.

<sup>§</sup> Les botanistes ignorent quel est l'arbre d'où découle cette résine précieuse. Linnœus a avancé, sans preuve, qu'elle étoit produite par une espèce de genevrier.

Dict. D'Hift. Nat. published in 1803.

NIEBURR fays "We could learn nothing of the tree, from which incense distils; and Mr. FORSKAL does not mention it. I know, that it is to be found in a part of Hadramaut, where it is called Oliban." (Eng. Transl. vol. 2. p. 356).

be adduced for a different tree, is not opposed to any arguments of strength in favour of the Lycian Juniper.

A great degree of obscurity has always hung over this subject. We learn from Theormas rus and from Pliny, that the Greek writers differed in their description of the tree; Pliny adds, that the information contained in the volume addressed by King Juba to C. Casar, grandson and adopted son of Augustus, was inconsistent with other accounts; and further remarks, that the Ambassadors, who came to Rome from Arabia in his own time, had rendered the whole matter more uncertain than ever. The information, obtained in modern times from Arabia, is not more satisfactory.

DLIBANUM is named Lubán and Cundur by the Arabs. But, Benzoin having been introduced into general use, as incense, in place of Olibanum, the name of Lubán has been appropriated to that fragrant balfam, and the Muhammedan writers of India, on Materia Medica, apply only the term Cundur to Olibanum. The author of the Mekhzen-uladviyeh, under this head, states Cundur as Arabick, or according to other opinions Persian, and equivalent to the Syriack Labániyá (L. ). He describes the drug as the gum of a thorny plant, a yard high, with leaves and seed resembling the myrtle. It grows, he says, on the mountains of Shahar and Yemen. He, however, adds, that the plant is said to be found in some parts of India. The Tohfut ul muminin gives a similar description (excepting the remark last quoted); and so does the Arabian author Abulfadeli cited by the French translator of Pliny.

<sup>\*</sup> Pliny, 12. 14. Theophrastus Hist. Plant. 9. 2.

<sup>7</sup> Poinfinet. Paris 1771. tom. 4. p. 532.

Personne Captule ablance

FROM the Hebrew Lebonah or Arabick Luban, the Greeks obtained their names for the tree and the gum, Libanos and Libanoses. They feem likewife to have been acquainted with the term Cundur, from which 2010 is probably derived.

THE Hindu writers on Materia Medica notice a fragrant refinous gum, under the name of Cunduru, which their grammarians confider as a Sanscrit word, and accordingly state an etymology of it from a Sanscrit root. They concur in declaring it to be the produce of the Sallaci, a tree which they affirm to be vulgarly called Sálai. The tree, which is known by that name, was examined by Dr. Hunter on his journey to Ujjayini; and by me on a journey to Nagpur: and it has been figured and described by Dr. Roxburgh, who has named it. Boswellia serrata. His description follows.

Boswellia Serrata, Roxb.

Gen. Char. Calyx beneath, 5—toothed. Corol 5 petaled. Nectary a crenulated, fleshy cup, surrounding the lower part of the germ, with stamens inserted on its outside. Capsule 3—fided, 3—celled, 3—valved. Seeds solitary, membrane winged.

Spec. Char. Leaves pinnate; leaflets ferrate, downy. Racemes fimple, axillary. Petals ovate. Filaments inferted on the exterior margin of the nectary.

A large tree, a native of the mountains of India. A most fragrant refinis collected from wounds made in the bark, &c.

Leaves crowded about the extremities of the branchlets, pinnate with a fingle terminal one.

Leaslets sessile, sometimes opposite, sometimes alternate, in general about 10 pair, obliquely-ovate, oblong, obtuse, serrate, villous; length about an inch, or an inch and a half.

Petioles round, downy.

Racemes axillary, fimple, fhorter than the leaves, downy.

Bracks minute.

Flowers numerous, very pale pink, fmall.

Calyx five lobed,\* downy.

Corol, petals five, oblong, expanding, downy on the outfide, and confiderably longer than the stamens.

Nectary, a fleshy crenulated cup,† surrounding the lower two thirds of the germ.

Stamens: Filaments ten, alternately shorter, tinserted on the outer edge of the mouth of the nectary. Anthers oblong.

Pistil. Germ above, ovate. Style cylindric. Stigma of three pretty large lobes.

Pericarp: Capfule oblong, three-fided, three-celled, three-valved, fize of an olive, fmooth:

Seed folitary, winged, broad-cordate, at the base deeply emarginate, point long and slender, and by it inserted into the apex of the valve of the Capsule to which it belongs.

THE foregoing description is by Dr. ROXBURGH. I have merely added in the margin a few inconsiderable variations taken from Dr. Hunter's notes or from my own.

THE fructification is remarkably diversified on the same plant. I have found, even on the same raceme, slowers in which the teeth or lobes of

third a bon divin on to

<sup>\*</sup> So Dr. Roxburgh. But Perianth 1-leaved, 5-toothed; according to Dr. Hunter's ob-

t Coloured and adhering to the Calyx.

<sup>#</sup> Subulate and alternately flender.

the Calyx varied from 4 to 10. The number was generally 5, sometimes 6, rarely 7, more rarely 4, and very rarely 10. Petals as many as the divisions of the Calyx. Stamens twice as many. Capsule generally 3 sided, sometimes 4, rarely 5, sided; with as many cells and as many valves. Seeds generally solitary: the dissection of the germ does indeed exhibit a few in each cell; but only one is usually matured.

The tree is frequent in the forests beteen the Sone and Nágpúr; on the route by which I travelled to Berar in 1798. The gum, which exudes from it, was noticed by Mr. D. Turnbull, who was then Surgeon to the residency at Nágpúr. He judged it to be Olibanum; and so did several intelligent natives who accompanied us. But the notion, prevalent among botanists, that Olibanum is the produce of a species of Juniper, lest room for doubt. I now learn from Mr. Turnbull, that, since his return to his station at Mirzápúr, he has procured considerable quantities of the gum of the Sálai, which he has sent to E urope at disferent times; first without assigning the name of Olibanum; and, more lately, under that designation. It was in England recognised for Olibanum, though offered for sale as a different gum; and annual consignments of it have been since regularly sold at the East India Company's sales.

The experience of several years at a market such as that of London, where a mistake (had any been committed) would have been soon discovered, seems to be conclusive. I might, however, add to it the testimony of medical gentlemen at this place, by whom specimens of the Gum furnished by Mr. Turnbull have been inspected, and who concur in opinion, that the Gum appears to be the same with the Olibanum of the shops.

X 4

UPON this evidence so corroborated, I shall venture to propose the following statement of Synonyma both for the tree and the Gum.

Bofwellia Serrata.\*\*

Sansc, Sallací or Sillací, Cundurucít or Cundurí, Surabhí, Suvahá &c. Hind, Sálaï, Sálé, Sálá or Silá, Sajíwan.

Gr. Libanos.

Lat. Libanus.

The Gum. Sanfc. Cunduru, Cunda, Mucunda, &c.

Ar. & Pers. Cundur (anciently Lubán). Syr. Labuniya. Heb. Lebonah.

Gr. Libanotos or Libanos. Lat. Libanus. Mod. Lat. Olibanum, (quafi Oleum libani).

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If the genus had not already received a botanical name, it might have been fuitably denominated from the refinous Gum, afforded by this tree; and the generick and trivial names of the species might be Libanus thurifera.

<sup>+</sup> Producing Cunduru.

<sup>#</sup> Fragrant.

REMARKS on the Species of Pepper, which are found on PRINCE OF WALES'S ISLAND.

### BY WILLIAM HUNTER, Esq. M. D.

HAVING had an opportunity, during a residence of some months at Prince of Wales's Island, to ascertain, partly by observation and partly by inquiry, some particulars which I conceive to be new respecting the culture and preparation of black pepper, the principal staple of that Island, I am induced to lay the fruit of my researches before the Asiatick Society. To these I have added a few remarks on the other species which are found on the Island. I judged it would not be without utility to add the oriental names of each species; and in this part of my task, as far as regards the Sanscrit and its derivatives, I am indebted to the liberal assistance of Mr. Colebrooke.

1. Piper nigrum. Lin. sp. 40. Syst. 74. Reich. 1. 75. Willden. 159. Fl. Zeylan. 26. Mat. med. p. 41. Woodv. Med. Bot. 513. t. 187. Camelli de plantis Philip. in Phil. Trans. vol. 24. p. 1773. Loureir: Cochinch. 30. Miller illust. Plenck icon. Miller's Dict. No. 1.

Black Pepper. Leaves ovate acuminate, five to feven nerved, fmooth; petioles fhort.

Piper rotundum nigrum. Pluk: almag. p. 297. t. 437. f. 1.

Piper rotundifolium nigrum, Bauhin, pin, 411. Morifon hift, pl. 3. p. 602. f. 15. t. 1. f. 1. Blackwell t. 348. Ray, Hift. 1341. Burm. Zeyl. 193.

Lada, alijs molanga s. Piper mas. Piso Mant. Arom. p. 180. cum icon. Molago Codi. Hort. Malab. v. 7. p. 23. t. 12.

Pepper plant. Mariden, Sumat. p. 105 & feq.

AALAN SU CENTRALES

Gr. Петерь

Sans. Maricha, Marícha.

Hind. Mirch, Golmirch, Cálímirch.

Arab. Fulful, Filfil.

Pers. Pilpil.

Malay. Ladda.

The Greek name of this species, from which the name of the genus is taken, has been said to be derived from "Is=124, because it is supposed to promote digestion." But we have it on the authority of Hippocrates that the Greeks received this term from the Persians; (4) and these undoubtedly had it from the Indians, (5) from whose country they imported the drug itself. In fact, the Persian and Arabick, as well as the Greek and Latin names, are derived from Pippali, the Sanscrit denomination of Long Pepper. The ancients in general, with the single exception of Theophrastus, supposed the black, the white and the long pepper to be the produce of one plant. Hence, they might naturally enough apply to one species the Indian name of another. Salmasius, who notices this, (4) has fallen, in common with other modern writers, (5) into the opposite error, by supposing the black and white peppers to grow on different plants. Piso appears to be the first

<sup>(1)</sup> Scapulæ Lexic. in voce. Alex. Aphr. in præf. 1. 1. probl.

<sup>(2)</sup> De Morb. Mulier: ed. Fæs. p. 672. 1. 14.

<sup>(3)</sup> Salmas. Plinian. Exercit, in Solin. (Paris 1629. fol.) p. 1026. C.

<sup>(4)</sup> Ibid.

<sup>(5)</sup> Garcias Hift, Arom, apud, Clus, exot, p. 182,

who corrected this mistake; (6) and his statement is confirmed by RHEEDE, (7) LOUREIRO (8) and MARSDEN. (9)

This plant has been so fully described, that I have nothing to add on that head. But as it is the most important article of produce on Prince of Wales's Island, the manner of cultivation pursued there merits a particular detail.

It is propagated by cuttings, or fuckers. They are generally planted at the distance of about  $7\frac{1}{2}$  feet; that is 100 plants in an Urlong, which is a measure of 80, yards square, nearly equal to  $1\frac{1}{3}$  Acre. But some experienced cultivators think that the distance should be greater; perhaps nine feet; as the roots would be better nourished, and the produce more abundant.

When a plantation is to be commenced, the large timber is cut down by Malays, at the rate of five Dollars per *Urlong*. The remaining labour is performed by Chinese, who dig out the roots, burn them and the trunks, pulverise and level the soil, plant the pepper vines and the trees which are to support them. It is usual to contract with them for making the plantation in this manner, and taking care of it for three years, at the end of which time it is in bearing, at the rate of 225 Dollars for 100 plants. The sum is liquidated by instalments, as the contractor requires it to pay his workmen. Something more than one

<sup>(6)</sup> Mantiffa Aromatica.

<sup>(7)</sup> H. M. v. 7. p. 23-

<sup>(8)</sup> Fl. Coch. 30.

<sup>(9)</sup> Hift. Sum. 106, 117.

third is paid in the first year, because the labour is then greatest; but about one-fourth of the whole is generally referved, till the contract is completed, and the plantation delivered over. This does not include the price of the plants, or cuttings, which are furnished by the proprietor of the plantation.

The vine is first made to climb on a pole. At the end of ten or twelve months, it is detached from the pole, to undergo the process called laying down. A circular hole, about eighteen inches in diameter, is dug at one side of the plant. At the bottom of this the plant is carried round in a circle, and the end of it is brought to the tree which is in future to form its support. The depth of the hole, in which the vines are laid down, varies, according to the situation and nature of the soil; and much judgement, to be acquired by practice, is requisite, to adapt it to these circumstances. In high and dry situations, the depth must be considerably greater than in those which are low and moist. Too little depth in the former would expose the roots to be parched in dry seasons; and too much in the latter would occasion them to rot, from excess of moisture.

The trees used for supporting the pepper vines on Prince of Wales's Island are the Morinda Citrifolia (Mankido) and the Erythrina Corallo dendron (Dadap). The Chinese planters alledge, that the pepper supported by the Erythrina thrives better, and lasts longer than that supported by the Morinda. One instance I heard quoted in proof of this affertion, was a plantation which had been long neglected, and overgrown with weeds. When it came to be examined, the vines which had grown on the Morinda were all dead; while those on the Erythrina, were still strong and productive. The reason assigned by the planters,

ifor this difference, is, that the roots of the Erythrina do not Ipread for smuch, or penetrate fo deep, as those of the Morinda; whence they interfere less with the pepper, and do not draw so much nourishment on the earth.

THE Morinda was formerly made to grow with one stem, but this was not found to afford sufficient spread for the vines. Therefore, when that tree is used, the practice now is to break off the principal stem, at the height of about two feet from the ground. This obliges the trees to put out lateral branches at that height. When these have attained the length of about a foot or sisteen inches, they are cut off. From their ends arise erect shoots, each of which forms a stem, so that the vine has four or sive stems to climb on, instead of one.

The vines, at three years of age, begin to produce, and they are reckoned to be in full bearing at five or fix. They continue nearly in the
fame state for eight years more, or till they are fourteen years old. From
that period they are reckoned on the decline; but the planters on
Prince of Wales's Island cannot yet judge from experience, at what rate,
or in how long a time they decay. Some Chinese, who have cultivated
the plant on the Malay coast, say the vines have not arrived at their
point of greatest produce till they are fourteen years old; and that from
this, gradually declining, they continue bearing till near thirty.

The first year of bearing, or at three years old, the vines do not yield more than half a catti each. But plants kept in good order, when in their prime, will produce three cattis. (10) A plantation of 3000

<sup>(10)</sup> A catti is ry lb.

vines at Súngí Clúan<sup>(11)</sup>, now in its eleventh year, has been let for three years at feventy picols yearly, or at the rate of  $2\frac{1}{3}$  cattis each plant. It must therefore produce as much more as will pay the tenant for his labour and risk. They are generally let, for the first five years of bearing, or from three to eight years old, at 160 picols per laksha (10,000) or at 160 cattis for 100 vines.

The vines yield two crops yearly. The first gathering commences in December, after the heavy rains are over; and at the same time, the vines have put out new flowers. This first collection may be finished in February. The flowers which spread in December have ripened their seeds in April or May. The second collection then begins, and ends in July. During this time, blossoms have expanded, which are to surnish the crop of next December. But, with the most careful cultivators, who gather only the bunches which are fully ripe, these two harvests run so nearly into one another, that the collection is in a manner continued without interruption, from December till August; so that there is only an interval of four months in the year, which is the season of the heavy rains.

The bunches are plucked off entire, taking care to pull only those that are ripe. They are thrown into baskets, and allowed to remain for a day. They are afterwards spread on mats, and trodden with the seet, to separate the fruit from the stalk. The grain is next winnowed, to clear it from the stalks and the lighter grains; and the good heavy grains are spread on mats, in the sun, to dry, for three days. It is calculated that one hundred cattis of green pepper, with the stalks, yield thirty-five cattis of clean and dry pepper. The collection of one day from

<sup>(11)</sup> A district near the southern extremity of the island, of which the foil is found peculiarly favorable to the cultivation of pepper. The oldest vines are in this district.

46,000 plants of three years old, was 500 cattis of green, or 175 of dry pepper.

It is usual, as was before noticed, when the plantation is delivered over to the proprietor, at the end of three years, to let it to a Chinese farmer, for five years more; as the proprietor is thereby less liable to imposition, the only precaution necessary being to see that the tenant is careful of the vines during the last year, and leaves them in good condition at the expiration of the lease. This is the only way in which a very extensive plantation, or one whereon the proprietor cannot bestow his whole attention, can be managed to advantage. But, if the proprietor has time, and is careful and acute, he may render it something more productive, by keeping it in his own hands. The labour of cleaning the vines, throwing up earth about the roots, and collecting the produce of the plantation abovementioned, of 46,000 plants, was performed by sixteen.

THE Table at the end of this paper exhibits a calculation of the profits that may be expected in twelve years from a given space of ground planted with pepper; supposing it to sell at ten dollars a picol; which was the price on the field when I was on the Island, and then esteemed very moderate. But I understand it has lately fallent to something between eight and nine Dollars.

THE whole quantity of pepper produced in that year on the Island, was estimated at something between fixteen and twenty thousand picols. Taking the medium quantity at 12 Dollars, which was the selling price, this article must have amounted to 216,000 Dollars. The Island pepper

o (12) In 1802

is more effected than that which comes from the Malay continent and Sumatra, and it fells for about one Dollar more per pical. The difference is occasioned by the haste of the Malays to gather the fruit before it is sufficiently ripe.

2. Piper Betle. Lin. fp. 40. Syst. 74. Reich. 1. 75. Willd. 159. Fl. Zeyl. n. 27. Loureir. Cochinch. 31. Burman. Zeyl. 193. t. 83. f. 2. Moris, Hist. 3. 603. Miller's Dict. No. 2. Leaves obliquely cordate. acuminate, waving, seven-nerved, smooth.

Betele Tambul five Betre. Burm. Zeyl. 46.

Betre, Betelle, Betele, Betle. Bauh. Hift. 1. p. 437. Ray. Hift. 1913, Acost. Arom. c. 10. Clus, exot. 176. t, 176. Dale pharm: 313.

Beetla Codi. Rheede Mal. 7. p. 29. t. 15. Bulat wæla. Herm. Zeyl. 34. 36. 66.

Sans. Tambulí, Parn'aletá, Nagavallí.

Hind. Tambúl, Tamból, Nagbel, Pan.

Tamul, Vettilay-Chuddi.

Malay. Sírí.

SAUMAISE has shown at great length, and with considerable strength of argument, that the ancient Greek writers meant this leaf by Malabathrum, rather than the leaves of Laurus Cassa, or Tez-pat. (13) The Arabick and Persian Languages have no names for this plant. Tambol is borrowed from the Hindi by Persian Authors, who name the leaf Bergitambol. It is called Pán in Hindi, from the Sanscrit Parna, a leaf in general; in the same manner as it was known to the Romans under the name of folium. (14) The Indian writers enumerate several

<sup>(13)</sup> Salmas. Exer: Plin. p. 1079,

<sup>(14)</sup> Ibid. p. 1071, 1072,

warieties of this plant, distinguished by the fize, shape and slavour of the leaf.(15)

THE Malays reckon five varieties, among which are these three, Siri Malayo, Siri China, Siri U'dang The specimen of which the leaf is above described was the Siri China. The Siri U'dang they say has the petioles and nerves red.

CULTIVATED, but in no great quantity. A larger quantity is im-

3. Piper Siriboa. Lin. sp. 41. Reich. 1. 76. Willd. 161. Flor. Zeyl. 29. Swartz. obs. 19. Miller Dict. No. 10.

Siriboa Rumph. Amb. 5. p. 340. t. 117.

Betela quem Sirii boa vocant. Bont. jav. 91. t. 91. Ray, Hift. 1913. Malay Baci.

THE fruit is nearly as long as a finger, and tastes like the Betel leaf; and hence the name; boa signifying fruit in the Malay language. It is used as a substitute for Betel, especially at sea, where the fresh leaves cannot be procured.

3. Piper Chaba. H. Leaves alternate, petioled, lance-ovate, oblique at the base, with veins opposite: Spikes leaf-opposed, peduncled somewhat conical, compact.

Husain, brother to the Nawa's Muhammed Reza Khan, enumerates the following five kinds, Maghi, Căngiri, Căfări, Sinchi, Benglă. He thus describes the method of treating the leaves, by which they are made tender and acquire a whitish colour—A quantity of the leaves newly gathered is put into a bag, an earthen pot or a basket, covered with straw, and placed in a hole dug in the ground—The straw is set on sire, and altowed to burn till the leaves are heated to a certain degree. The sire is then taken away, and the basket lest for twanty-four hours in the hole, with a weight laid on it, to press the leaves gently together. It is afterwards exposed to the dews at night in the summer, or in winter kept in a warm place, till the leaves become white and tender,

Piper Longum Tsjabe. Rumph. Amb. 5. p. 333. t. 116. f. 1. Malay. Chabatadi.

This species has been generally consounded with Piper Longum; but a comparison of the figure above quoted from Rumphius, with that of Rumphius Cattu-tirpali. H. M. 7. p. 27. t. 14. will clearly evince them to be different.

The Piper Longum is called in Sanscrit Pippali, in Hindi Pipel, and in Persian Pilpili deráz. The species now under consideration appears to be the same that is called in Sanscrit Chavicá and in Hindi Chab. All the Sanscrit medical writers, as well as vocabularies of that language, concur in stating the produce of this plant to be Gaja pippali or Gaj pipel. This name was however assigned to a very different plant examined by Sir William Jones, (16) the Tetranthera Apetala of Dr. Roxburgh. (17) And the fruit of a plant, very different from both, is fold under that name by the native druggists in Calcutta.

## 5. Piper Latifolium ?

FRUIT like the former. Leaves alternate, deeply cordate, obtufe; nine nerved.

Mal. Gadú or Gadúkh.

THE leaves are used as a pot-herb:

HAVING feen only a small specimen, without fructification, which I know merely by description, I cannot speak with certainty of this species.

<sup>(16)</sup> Afiat. Res. v. 4, p. 303.

<sup>(17)</sup> Pl. Corom. No. 147.

Table exhibiting an Estimate of the expence and produce, in 12 years, of 100 Urlongs, planted with Pepper.

		Milleuner.	
	1 Dr. 1	1 Cr.	Balance
Consistence of the contract of	Sp.Drs		
Ift Year, Clearing of heavy Timber by Malays, at		3p. 1718	P. Sp. Drs P.
3 15 (8, per O riong	Fool	1 018	
To the Chinese Contractor, in the course of	500-		
years, when he engages to deliver the	10 h	0.50	
plantation in full bearing, at 22 Drs net	1230		
1000 plants, 22,500		1 127	W & Tisker husen
Of this to the co.	The state of	1	
Of this in the first year, 8437 50	8437 50	-	8937 50 Dr
ad Year Farther courses and a			093/3021
2d Year, Farther payment to contractor, 4218 75 Interest of 1st year, 2t 12 per cent, 75	4218 75		WEER DON'T
of the year, at 12 per cent,	1072 50		14,228 75 Dr
3d Year, In full to contractor, 9843 75	0	Dog Dog	STORES AND
3d Tear, In full to contractor, 9843 75	9843 75	-	
22,500	A-HILLS	HERV SEE	of others designed
		1000	
Interest in the 3d year,	1707 45	CAT ON LINE	P III TOWN
THE PARTY OF THE P	10/ 13	and the second	25,779 95 Dr
4th Year, Interest,	3093 59		The second second
Supposing the plantation to be let, during the	Dental D	10 400	
first 5 years of bearing, at 160 picels per			June Betranon
Lacha, this will be 1600 picols; which may	10000	10000	LOUIS PRICE BUILDING
be fold, on the ground, at to Drs		16,000	12,873 54Dr
5th Year, Interest,	22012	-	13375
5th year's crop,	1544 82	-	
The second of th	cd benef	16,000	1581 64 Cr
6th Year, Interest,		189 80	AN OTHER PROPERTY.
6th year's crop,	1381007	16,000 _	
N. C. O	- 1		17,771 44 Cr
7th Year, Interest,	1 10 03	2132 57	: William terror
7th year's crop,	Maria and	16,000	35,904 or Cr
8th Year, Interest,		2.5224 (1.2)	PERSONAL PROPERTY.
8th year's crop,	PER SU	4308 48	-
cylinder constitutions and the constitution of		16,000	56,212 49 Cr
9th Year, Interest,	E MIO	B COLLANGIA	In one stoom
The plants being now in full vigour, may be		6745 50	
let for four years more at 2 cattis each plant	DEL TE	11 01 5	dilico Viriali
or 2000 picels; which is		20,000	82 244 0
	100	20,000	82,957 99 Cr
10th Year, Interest,	1	9954 96	-
Toth year's crop,		20,000 -	112,912 95 Cr
11th Year, Interest,	-		1313. 01
11th year's crop,	-	13,549 55	75
TO DESCRIPTION OF THE PARTY OF		20,000	146,462 50 Cr
12th Year, Interest,	-	111111	h live style with
12th year's crop,		17,575 50	
	-1	20,000	184,038 - Cr

DESCRIPTION of an improved HYGROMETER,

BY LIEUT. HENRY KATER, HIS MAJESTY'S 12th REGIMENT.

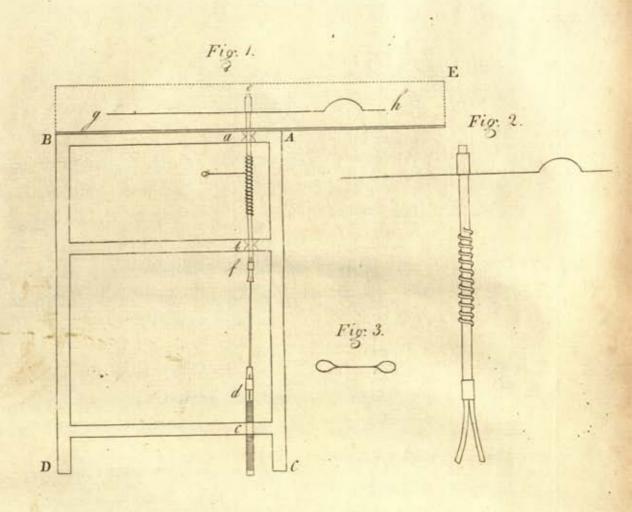
SINCE I had the honor of laying before the Afiatick Society " a defcription of a very fensible Hygrometer," I have attended much to the improvement of the instrument, and am induced to think that some further account of it may not be deemed wholly unacceptable.

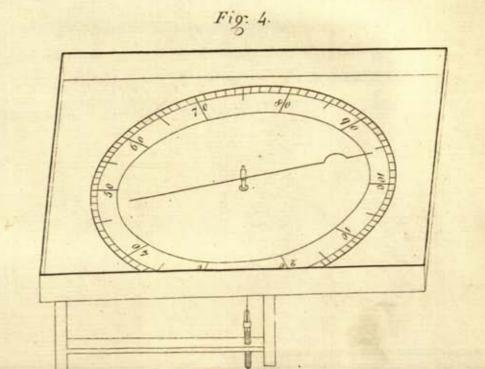
The principal objection to the Hygrometer described in my former paper, arose from the necessity of shortening the beard of the oobeena hooloo,\* in order to reduce the scale, to a convenient length; this was to be obviated, only by giving the instrument a circular form, and inventing some mode of ascertaining without difficulty the number of revolutions made by the index.

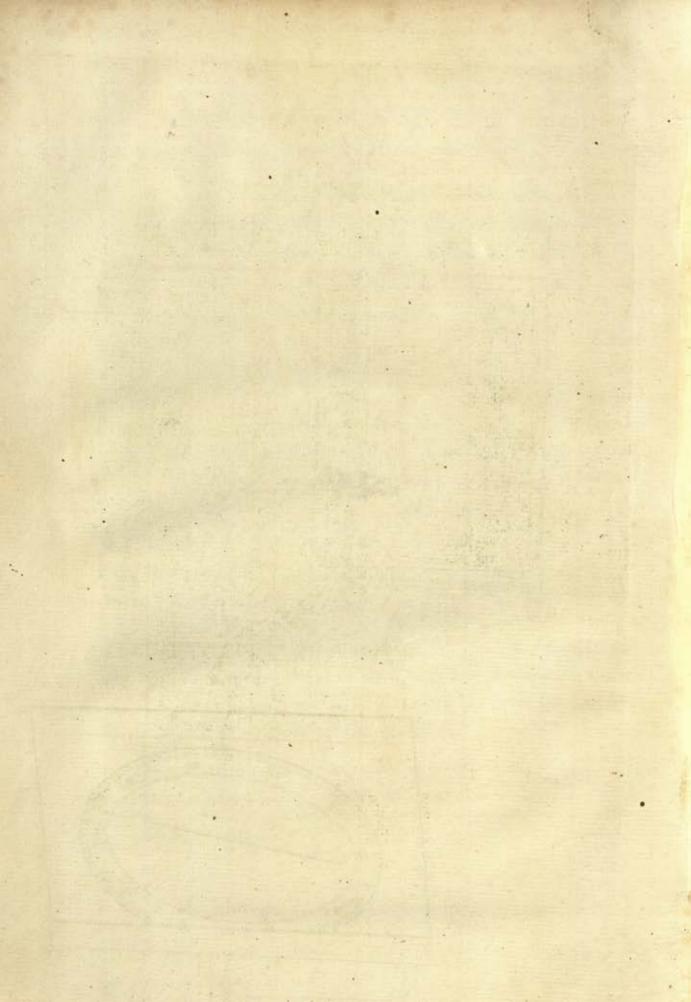
ABCD (fig. 1) is a frame, made of small square bars of brass or silver; this frame is soldered to a square plate BE, the edges of which are turned up, as represented by the dotted lines, to secure the index from injury: on the sace of the plate is engraved a circle (see fig. 4) which is divided into one hundred equal parts. Three holes, a, b, c, are made through the frame and plate in the same direction; the holes a & b, are of a conical form as represented by the dotted lines, and are highly polished to lessen friction; the hole at c receives a screw, one end of which is tapered, and has a notch cut in it with a fine saw, which may be closed by means of the sliding ring d.

THE axis e f, is made of filver wire, very smooth and straight, and of the fize of a large knitting needle; on the axis, a screw is formed, by

<sup>·</sup> Andropogon Contortus.







wishing a smaller silver wire tightly around it from left to right: this level of the ld be sourteen or sisteen threads in length; the end of the most important part of the Hygrometer, sig. 2 represents it on an enlarged scale.

A loop and drop (fig. 3) is made of fine gold wire, of such a size as that when suspended on the screw, it may slide along it with perfect freedom by means of the revolution of the axis, but not escape from one interval to another by any other motion: should the loop, on trial, be found too large (as indeed it ought to be) it may be easily closed a little, by placing it on the screw, and pulling it gently by the drop; it will then assume an elliptical form, as in the sigure. This loop is intended to register the number of revolutions made by the index, as it hangs freely from the axis, and advances one interval between the threads of the screw, for each revolution.

THE Index, g h, is made of fine wire, accurately balanced, and as light as possible; it fits on the end of the axis e, and is to be placed at right angles with the commencement of the screw. (See fig. 2.)

The beard of the oobeena hooloo is represented at f d, (fig. 1). The top of it, which is crooked, being cut off, it is first secured between the cheeks of the axis, at f, by means of the small sliding ring; the axis is then turned round till the gold loop is brought to the fifth or fixth interval of the screw, counting from the dial plate; the screw at c is then advanced, so as to receive the lower or thick extremity of the beard of the oobeena hooloo in the notch, where it is also confined by the sliding ring d.

THE extremes of dryness and moisture are determined in the following manner. The Hygrometer is placed in a new earthen pot, which has never been wetted, and exposed for a considerable time to as great a heat as the grafs can bear without injury: when the index is perfectly fleady, the Hygrometer is to be taken out of the vessel, and the screw at c, turned round with a pair of pincers, fo as to bring the gold loop to the first interval of the screw on the axis, counting as before from the dial plate, (which is to be placed to the left hand) and the index to 100 or zero. The Hygrometer must now be suffered to cool gradually, during which, if the atmosphere be in a mean state of moisture, the index will make four or five revolutions: the oobeena hooloo is then to be continually wetted with a hair pencil and water, till the index is again perfeetly steady. This will require some time, as it moves very slowly when within a few degrees of extreme moisture. The degree at which the index flands is now to be noted, and the number of intervals counted between the dial plate and gold loop, and this number prefixed to the observed degrees will give the extent of the scale.

ALL observations made with this Hygrometer, are to be reduced to what they would have been had the scale consisted of 1000 parts, or ten revolutions of the index. This is most convenient, as it facilitates the comparison of observations made with different Hygrometers. An example may not be thought superfluous. Suppose the scale of the Hygrometer to be 1145, or eleven intervals and forty sive parts; and that at the time of observation, there are four intervals, between the dial plate and gold loop, and 50 parts shown by the index; this would be written 450. Then, as 1145: 1000: 450: 393 nearly, the number of degrees to be registered.

noisture are well determined, be compared together, they will feldom differ .... divisions from each other, which is as near a coincidence as can be expected.

THE oobeena haoloo or Andropogon Contortus is found in every part of the country, in the month of January, when it should be gathered, and thoroughly dried in the sun, before it is used.

This grass appears to be far superior to any other hygroscopic substance, hitherto discovered. In the Encyclopædia Britannica, the scale
of Saussure's Hygrometer is said to consist of 400 degrees, or rather
more than one revolution of the index; the Hygrometer here described
makes eleven or twelve revolutions; it possesses also the advantage of being perfectly portable, cannot easily be deranged, and may be much reduced in size, if thought necessary, without affecting the extent of the
scale.

ON ANCIENT MONUMENTS, containing SANSCRIT INSCRIPTION

# By H. T. COLEBROOKE, Esq.

IN the scarcity of authentic materials for the ancient, and even for the modern, history of the Hindu race, importance is justly attached to all genuine monuments, and especially inscriptions on stone and metal, which are occasionally discovered through various accidents. If these be carefully preserved and diligently examined; and the facts, ascertained from them, be judiciously employed towards elucidating the fcattered information, which can be yet collected from the remains of Indian literature, a fatisfactory progress may be finally made in investigating the history of the Hindus. That the dynasties of princes, who have reigned paramount in India, or the line of chieftains, who have ruled over particular tracts, will be verified; or that the events of war or the effects of policy, during a feries of ages, will be developed; is an expectation, which I neither entertain, nor wish to excite. But the state of manners, and the prevalence of particular doctrines, at different periods, may be deduced from a diligent perufal of the writings of authors, whose age is ascertained: and the contrast of different results, for various and distant periods, may furnish a distinct outline of the progress of opinions. A brief history of the nation itself, rather than of its government, will be thus sketched: but if unable to revive the memory of great political events, we may at least be content to know what has been the state of arts, of sciences, of manners, in remote ages, among this very ancient and early civilized people; and to learn

has been the fuccession of doctrines, religious and philosophical,

INFORTUATELY, writers have feldom given the dates of their compositions: and the Hindu's love of fable, and distaste for sober narrative, have been as unfriendly to the biography of authors, as to the history of princes. The lives of few celebrated persons have been written, and those, which have been composed, exhibit the same fondness for improbable fiction, which pervades the mythological works of the Hindus. The age of an author must be therefore fought from circumflances mentioned in his writings: and none more frequently affords the defired information, than the author's notice of his patron; who generally is either the fovereign of the country, or fome person standing in such relation to the court, as gives occasion to mention the name of the reigning prince. Thus every ancient monument, which fixes the date of a reign or determines the period of a particular dynasty, tends to the afcertainment of the age of writers who flourished in that reign or under that dynasty: and, conversely, wherever dates can be with confidence deduced immediately from an author's works, these may furnish historical information and affist the explanation of ancient monuments.

On this account the prefervation and study of old inscriptions may be earnestly recommended. It is not on a first or cursory examination, that the utility of any particular monument for the illustration of the civil or literary history of the country can be certainly determined. Even those, which at first sight appear uninteresting, may be afterwards found to bear strongly on an important point. Instances might be brought from the few inscriptions, which have been already published. But it is

not my present purpose to enter on an examination of published monuments, but to urge the communication of every inscription which may be hereafter discovered; at the same time, that I lay before the Society copies and translations of those which have been recently communicated from various parts of *India*.

It is a subject for regret, that the originals, of which versions have before been made publick, are not deposited where they might be accessible to persons engaged in researches into Indian literature and antiquities: but much more so, that ancient monuments, which there is rearson to consider as important, have been removed to Europe, before they had been sufficiently examined, or before they were accurately copied and translated. I may specify, with particular regret, the plate of copper found at Benares, and noticed by Capt. WILEORD in the present volume of Asiatick Researches (p. 108.); and still more a plate which has been mentioned to me by a learned Pandit, (who assured me that he was employed in decyphering it),\* and which appears, from a copy in his possession, to have contained a grant of land by the celebrated JAYACHANDERA, when a young prince associated to the empire of his father: from this information it seems to have been particularly valuable on account of the genealogy comprised in it.

TRANSLATIONS might indeed be made from the Pandit's copy of the last mentioned plate, and from one taken by a learned native in Capt. Will-FORD's service, from the plate discovered at Benares. But my experience of the necessity of collating the copies made by the best Pandits.

<sup>\*</sup> Servoru Trivedi; the same who affisted me in decyphering the copy of an inscription on Firoz Shah's pillar at Delhi. As. Res. vol. 7. p. 180.

from inscriptions in ancient or unusual characters, discourages me from placing implicit confidence in their transcripts; and the originals are at present beyond reach of reference, having been conveyed to Europe to be there buried in some publick museum or private collection.

The only amends, which could be now made for the removal of those interesting monuments, would be the publication of copies correctly made in fac simile. From such transcripts, provided they be executed with great care, the text may be decyphered and translated. An exact copy of the Sanscrit inscription on the stone at Cintra in Portugal, enabled Mr. Wilkins to ascertain the date and scope of that inscription; as well as the names, which it contains.\* Similar copies of other inscriptions would in like manner surnish oriental scholars with the means of ascertaining their purport; and the publication of fac similes may, for this purpose, be recommended to those who are in possession of the originals.

I now proceed to describe, and, so far as I have succeeded in decyphering them, to explain, the several inscriptions on ancient monuments in stone and copper, which have been lately presented to the Asiatick Society.

I. Inscription on a Plate of Copper found in the district of TIPURAL

Towards the end of 1803, a plate of copper was discovered in digging earth for the repair of the highway through the Manamati hills in the district of Tipura. It was carried to Mr. Eliot, Magistrate

MURPHY's travels in Portugal. p. 277.

of the diffrict; and by him communicated to the Afiatick Society. On examination, is has been found to contain an inscription declar a grant of land, dated near 600 years ago.

THE plate measures 11 inches in height and 9 in breadth; and is engraved on one surface only. The sides have a gentle curvature; and, at top, is an abrupt bend allowing room to a sigure coarsely delineated and apparently intended to represent a temple. The character agrees nearly with that now in use in Bengal: but some of the letters bear a closer resemblance to the writing of Tirhut.\*

THE following is an exact copy of the infcription in Nagari letters, as decyphered by the aid of feveral Pandits. A literal translation is fubjoined; and a fac simile of the original is exhibited in the annexed engraving.

<sup>\*</sup> There is reason to suppose the writing, as well as the language, of Bengal to be originally the same with the Tirbūtiya: altered, in course of time, since the separation which has been the consequence of a colony of Canyacubya Brahmens settling in Bengal.

न चतुः तीमितिभूः खयं॥ ७॥ इंदोबाधतमा विभूमिपत्ययन्ना सपनाङ्क रयुद्मान श्वनिव निधेनाय मधुना कृत्व निधेना चते ॥ पाल्याभूमिरियंनवा कित प यहे। हे पार ज्यस्थिति धिरहेन्यं विधव वसाव हाम तीय स्था लियो निपतिः ॥ ६॥ सद्द ज गुणम दिनाय द्यापीयं स्थानाद ति विस्त सित्र गुन्नवं स् जानां प्रश्तिः ॥ विम स्वन गुने विभा कृत्यमा णः इत ह यिति दिस्यं मेद नी स्वस्यः ॥ ए ॥ स्वत्यते रतीता अस्यः १९४९ रणवङ्क म स्वश्रीमत् हित्रा सदे वपादानां सम्मद शस्य त्यारे कि स्थाने यना द्वेना पि सम्बतः १७ स्टर्या गत्यानु स्वित् ।

#### TRANSLATION.

- 1. In that \* eminent and spotless family, was born, an ornament of the learned, renowned throughout the world, endowed with science, and practising good deeds, the celebrated, happy, and venerable HEDI; † in whose pure mind, virtue ever ranges, like a swan in the limpid lake.
- 2. FROM him sprung the happy chief of ministers, who exhibits the joys of unsullied glory; a spotless moon, among mortals, and at sight of whom the hare-spotted luminary ‡ appears swoln [with envy,] and distempered with alternate increase and wane.

<sup>\*</sup> This use of the pronoun indicates the conspicuousness of the object; as if sufficiently known without further designation.

t Here, as well as with the fubsequent names, the particle éva is subjoined without changing the preceding vowel. This is contrary to the rules of the language; and emendations have been accordingly proposed: but I shall not disturb the text.

<sup>†</sup> The moon is named Sasin, from a fancied resemblance of its spots to a leveret. Pandits, to whom I showed maps of the moon, copied from Heveltus and Ricciolus, fixed
upon the Loca paludosa and Mons Porphyrites, or Keplerus and Aristarchus, for the
spots, which, they think, exhibit the similitude of a hare.

- 3. THAT venerable officer, \* ever relying on holy virtues, † is eminently conversant with well guided morals, and conspicuous for the obfervance of practical duties.
- 4. Himself an ocean of generofity and meditation, yet thirsting to taste, by practice of austerity, that which alone confines the sleeting thoughts; ‡ sympathising with other living beings, an unrivalled theatre of virtue, practising good deeds, and, in private, only a contemplative saint, this auspicious D'HADI alone rose, as a luminary of joy above the earth.
- 5. Superior to the world was the delight of this pre-eminent fovereign of the earth, the happy Ranabanca Malla, whose officer & he was; for the deity, who has a hundred eyes, I is obscured, even in his own abode, by the dazzling glories of that [monarch], which traverse the three worlds, in all directions.
- 6. 'Mar the twenty drónas | of land, in the village of Ijac'banda, granted to him by that generous prince, continue, as long as fun and

<sup>\*</sup> The term is Aswaniband'hica, which the Pandits are disposed to explain as signifying " a general commanding cavalry." Other interpretations may be suggested: the word is an unusual one.

<sup>+</sup> This, as indeed the whole of the verse, is obscure, and admits of various interpretations.

In this place, more than one reading has been proposed.

<sup>‡</sup> Here again the fense is obscure; and more than one reading may be proposed. The praise is evidently grounded on the union of practical virtues, with religious contemplation.

<sup>&</sup>amp; Aswanihand bica.

<sup>¶</sup> INDRA.

A measure of land, still used in the eastern parts of Bengal; originally as much as might, be sown with one Drona of seed: for a Drona is a measure of capacity. (As. Res. vol. 5. p. 96.)

moon endure, yielding the ample harvest of unfullied praise; for it is land secure from invasion, delightful, like a pleasant painting, and appears like a crest in the assemblage of cities.

- 7. 'This land, with definite boundaries, has been given by the liberal prince himself, the range of whose glory therefore extends, as is fit, in all directions.
- 8 'O FUTURE kings; understand this inscription on copper, by which that officer \* humbly now solicits you: this land should be preferved; nor is the permanence of the realm consistent with the slightest injury: a shame on avarice! That land is, as it were, a widow, the sovereign of which is despited [for his covetousness.]
- 9. 'ALTHOUGH this excellence of the descendants [of that prince,] which is guarded by their natural virtues, be sufficiently apparent, yet does MEDINI, urged by the multitude of the good qualities of that unfullied race, thus make it known.†
- 'YEARS expired of the Saca king 1141; ‡ dated in the seventeenth year of RANABANCA MALLA, SRSMAT HARICALA DEVA, § or ex-

The Drona, vulgarly called Dûn, varies in different districts. It may, however, be reckoned nearly equivalent to eight Bighas, or two acres and two thirds.

<sup>\*</sup> Aswaniband'hiea.

<sup>†</sup> This inscription appears not to be a grant by the sovereign; but a memorial of the grant recorded by the possession, who must have been the heir of the grantee, and who seems to acknowledge in this place the liberality of the grantor's successors in continuing the land to him.

<sup>#</sup> Corresponding to A. D. 1219.

This prince is probably a different person from the grantor named in the fifth verse.

pressed in numerals, Samvat, \* 17; on the 29th of the Sun's being in the balance.'

II. Inscription on a Plate of Copper found in the district of GORAKHPUR.

A PLATE of copper, containing an inscription in the Sanscrit language, declaratory of a grant of land, but without date, was lately found in the district of Gorekhpur, near the river called the little Gand'hac. It was brought to Mr. John Ahmuty, Magistrate of the district, and by him communicated to Captain Wilford, who has presented it to the Asiatick Society.

The plate, which is  $16\frac{1}{2}$  inches long, and  $12\frac{1}{2}$  broad, is engraved on one face only. The lines, of which there are 24, run in the length of the plate; and on the left fide is a curvature, on which a femicircular appendage is riveted, containing a flat button reprefenting the impression of a seal. The figure is very impersect, but seems to be intended for some animal.

With the plate itself, Captain Wilford communicated a copy of its contents as decyphered by a Pandit in his service. On carefully comparing it with the original, I found all the effential passages, as well as the names, correctly given: a few alterations, which this comparison showed to be necessary, have been made with the concurrence of several Pandits from Tirhut, who assisted me in collating it. I preferred the aid of Pandits of that province, because the peculiarities of the characters, where they differ widely, as they do in many instances, from common Déva nágarí, make a nearer approach to the Tirhútíya letters

<sup>\*</sup> Here Samuat is used for the year of the king's reign. See remarks, towards the close of this paper, on an inscription found at Amgachhi in Dinajpur.

able for the uncommon form of the confonants, and the very unufual manner in which the vowels are marked. On this account, an exact copy of the original in fac simile will be subjoined; as well as a correct transcript in modern Deva nágarí letters. The following version is as literal as the difference of idiom permits.

### TRANSLATION.

- r. 'SALUTATION to the God, who is manifested in various forms, from earth to the performer of a sacrifice, \* who is an universal soul, to be apprehended only by contemplation of saints; and who pervades all.
- 2. 'SALUTATION to the unborn god, + who makes the world's production, its continuance, and ultimate destruction; and the recollection of whom serves as a vessel of transport across the ocean of mundane ills.
- 3. SALUTATION be to the husband of LACSHMI; to him who reposes on Sesha as on a couch; to him who is VISHNU extracting the thorns of the three worlds; to him who appears in every shape.
- 4. 'SALUTATION be to the bleffed foot of PÁRVATÍ, § which destroyed the demon Mahisha, by whom all had been overcome; and which gives felicity to the world.

<sup>\*</sup> Siva, manifested in eight material forms: viz. Earth, Water, Fire, Air, Ether, the Sun, the Moon, and the person who performs a sacrifice.

<sup>†</sup> BRAHMA the creator, himself not created, and therefore termed unborn.

<sup>†</sup> VISHNU, who reposes on the serpent Ananta or Sesha; and who has been incarnate invarious shapes to relieve the world from oppressors.

<sup>5</sup> BHAWANI OF DURGA flew MAHISHASURA. The legend is well known,

- 5. 'SURROUNDED by groves of lofty canes, \* inacceffible through the range of edifices on the hill's fummit, encompassed by a deep ditch in which fountains spring, secure by impassable defence from dread of
- 6. foes, a royal abode there is named Vijeyapura, t which is fituated on the declivity of the northern mountain, where the pain of regret is unknown, and every gratification is found.
  - 7. THERE reigned the fortunate D'HARMADITYA, like another Bod'hisatwa, a mighty and prosperous prince, whose glory spread over
- 8. the four seas. His son was JAYADITYA, adorable like the moon, the fortune of the world, like the tree which bears every desired fruit, and satisf-
- 9. fying thirst like a deep lake: humble, though a king; though young, prudent and averse from amorous passion; though liberally bestowing all, yet ever receiving the best result of all.
  - 10. 'His minister, learned, intelligent, and vanquisher of foes, the fon of a mighty chieftain and counsellor CRITACIRTI, was the fortu-

Bamboos (Bambufa Arundinacea and other species).

<sup>†</sup> The place here described may be Vijey-pur, on the northern declivity of the Vind'hya hills, a few miles from the temple of Vindhyá-vásiní near Mirzápur on the Ganges. It is the ancient residence of a family, which claims descent from the former sovereigns of Benares; and is still the abode of the head of that family. But the terms of the text, Uttaragiri catacê, rather seem to signify 'declivity of the northern mountain,' than 'northern declivity of the mountain;' and that interpretation points to the range of snowy mountains, instead of Vind'hya which is reckoned a tropical range.

The name of JAYADITYA, is known as the patron of certain authors, who flourished at Casi; and who are considered as ancient writers. He is mentioned in the title of the Vamana Casica, and even termed the author of that grammatical work. I shall not undertake so determine whether this be the same person.

- who was by nature eager for the reduction of enemies.
  - 12. The village of Dummadumá, † obtained by him from the royal favor, and rich in tillage, dwellings and cattle, has been affigned by him to Durga.
- is indeed beneficial to others: the clouds gather water from the sea, and shower it down on the growing crop. Rare indeed are those liberal persons, who distinguish not between their own dependants and

Critacirti may fignify ' of established same :' but, if taken as an epithet, it leaves no other term which can be assumed as the name of the minister's father.

- † The text exhibits Pracriti parabaddhaceesho. Though a very unfatisfactory reading, it is here preferved, and has been translated in the most probable sense, which I am able to suggest for it.
- ‡ A village of this name is fituated in the diffrict of Allababad, within twenty miles of Eijeppur on the Ganges. But the name is not uncommon; and may belong to some place nearer to the northern mountains.
- JAYADITYA's minister, MADALI, appears to have assigned this village for general charitable uses, by confecrating it to the goddess Durga. Such at least seem to be the most consistent reading and interpretation of the text.

The names, being uncommon, are, in this instance, doubtful. Srimadáli is clearly given as the name of the minister: and either the whole of it may be his name; or it may be resolved into Sessmar Ali, or into Sri Madáli. The latter is most agreeable to the prevailing practice of prefixing Sri to a proper name. In this inscription, the auspicious syllable is prefixed to the names of the two kings sirst mentioned; but is not added to the names of the writers of it, who are noticed towards the close. (v. 20 & 22).

ftrangers: how many are the all-productive trees even in the relegion grove? \*

- 15. 'Do not imagine, father, that, in the finful age, a general equality prevails: the fovereign defends the earth, but a work individual."
- 16. guards not even his house. † Birth and death, success an misfortune, are perpetually passing: why not, therefore, protect another glory like
- 17. one's own? He, who bestows fertile land furnished with the means of agriculture, mounts a celestial vehicle and ascends to heaven, glad-
- 18. dening his progenitors. But he, who foolifhly refumes land allotted to gods or priefts, affuredly caufes his ancestors to fall to hell, even though they had previously attained heaven.
- 19. 'Sprung from a very pure race, respectful towards gods, priests, spiritual parents and the king, a generous sounder of temples,
- 20. who has dug many ponds; by the tenderness of his disposition an image of Sugata, ‡ a treasure of virtues, with subdued organic.
- . 21. averse from unpleasing discourse: such was the Cayastha Nagadatta.

<sup>\*</sup> INDRA's garden called Nandana; in which five celeffial trees are placed, termed Calpadruma, Párijáta &c. The Calpadruma yields, as its fruit, every thing which is defired.

<sup>†</sup> The intention of this and the following lines is to deprecate the refumption of the grant.

<sup>‡</sup> From this comparison to Sugata or Budd'ha, as well as a previous comparison to a Bödhisatwa, it may be inferred, that the author, if not himself a follower of the sect of Budd'ha, was at least more amicably disposed towards that sect, than modern orthodox Hindus appear to be.

It is hardly necessary to inform the reader, that the last Budd'ha was conspicuous for his tender, compassionate disposition. The mythology of the sect of Budd'ha peoples heaven with Bödhisatwas: and, from this class of beings, the Budd'has are selected. Gautama Budd'has was a Böd'hisatwa under the name of Swetacetu, before he was incarnate as Sidd'har tha son of Sudd'han.

in ap measure and pleasing verse, elegant \* and apposite.

- 22. The last three verses were written by his younger brother was fearful of proclaiming his own virtues.
- 23. 'RICH and fertile is the village, obtained through the king's favor as an endowment for fublishence; and still more productive is this other village for virtuous men.' †

॥ श्रेगशेणयनमः॥ क्षित्यदियजमानानमूर्त्वेविश्वगामने। मुनीनाध्यानगम्यायस्मस्त्यापिनेन
मः॥ १॥ अजायजगद्रत्यत्तिस्थितिप्र लयकारिशे। संसारसागरेत्तारपातसंस्मृतयेनमः॥ १॥ नमा
स्त्र लक्ष्मोपनयेरोषपर्य्यकश्यिने। चैनेत्रक्षतं ठकोत्कातिविष्ठनेविश्वस्त्रिपणे॥ ३॥ नमास्त्रविजितारी
प्रमहिवास्त्र र्घातिने। पार्वतीपाद पद्मायजगदान द्दायिने॥ ४॥ वेणुवनालीविषमाशिखर्माकारमा
लया ५ नंध्या । निर्धाराभीरपरिखाद स्तरमस्तारिसं चासा॥ ५॥ अविदि तिवयोगदः खास नेवसमाप्तस्
क लविष्य द्वा । जस्त्र त्रितिक ठकेविजयपुर्गामन्यधानी॥ ६॥ तच च च त्रमोधिनान यशाः
श्रीमान्धर्मादित्योत्यपितरभू द्वाधिस ल इ व॥ ७॥ तस्य च श्रीवसेवो।भाग्यंलोक

मनामवद्देवो ॥ स्वयदे।पिश्च्यत्सवस्यगृहोनपरमार्थः ॥ ए ॥ नस्यस्विवः अतार्थे।पश्चित्तनीते।युवापिधीरे मनामवद्देवो ॥ स्वयदे।पिश्च्यत्सवस्यगृहोनपरमार्थः ॥ ए ॥ नस्यस्विवः अतार्थे।महानुभावाविनि ज्ञिताएतिः । साम नस्यस्य महतः कृतवीर्निमित्रिणसनयः ॥ १० ॥ यस्य चस्य सम्बद्धिरतः कर्णापि सा घवंयातः । पकृतिपरबद्धवेष्ट्याबभूवस्त्रीमदासिति ॥ १० ॥ दुमादुमाकनामाग्रामाएजप्रसादसंपा प्रः । कृषिवस्तिगोधनाळ्यादुर्गायैशासितस्तेन ॥ १२ ॥ भवतिहिस्तांविभूतिः परेपक्षत्रयेमहान मात्रित्य । जनधेरदाय जलंज सदाः श्सायवर्षनि ॥ १३ ॥ स्वपरजननिविशेवाः सनोविरसाहिसं

<sup>\*</sup> The text exhibits Surna critasibhā; which must be amended by reading either Swarna or Suvarna. The last is preferable as giving the most correct metre: either way the meaning is rendered 'elegant, as gold,' or 'by well selected words:' for Suvarna or Swarna signifies gold; and may be resolved into two words, Su well, and varna or arna a letter or syllable.

<sup>†</sup> The last line is very obscure. If it have been rightly decyphered and explained, it may allude to some other grant held by the Raja's minister, for his own subsistence.

तिफ सदाने। कल्पड्नाः कियलः त्रूयने न स् निषिवने॥ १४॥ माक स्यक सिर्गिषि स्मानन् कर्म र्मित्ते । रक्षिते स्थान र पित्र क्रियं ॥ २०॥ स्विवस्के नर्कितं स्थायं क्रियं क्रियं क्रियं क्रियं क्रियं ॥ २०॥ स्वयं क्रियं क्रियं क्रियं क्रियं क्रियं क्रियं क्रियं ॥ २०॥ स्वयं क्रियं ॥ २०॥ स्वयं क्रियं क्रयं क्रियं क्रियं

समाजुलाऽतिसस्यवती। जीवनपद्धिरितिसतांग्रामायंसस्य तरःपरः॥ २३॥

III. Inscription on three Plates of Brass found at CHITRADURG.

A GRANT of land, engraved on three plates of brafs, which were found at Chitradurg in the year 1800, and a fac fimile of a fimilar grant found at the same place, have been presented by Major C. MACKENZIE to the Asiatick Society.

The plates, which appear to be very similar in both grants, may be described from that, of which the original has been received. They are nearly seven inches wide and as many high; but surmounted by an arch of two inches in height. The two exterior plates have been engraved on the inner side only: the middle one is so on both saces. At the edge is a rim, half a line thick, by which the inscription is secured from being essaced by the rubbing of the plates. They are held together by a brass ring, on which is a seal of the same metal representing a boar. The engraved surfaces have some appearance of having been once gilt.

THE language is Sanscrit, excepting the description of the lands, which is in the Canara dialect. The whole inscription is in Déva-nagari

ner. It contains a grant by the king of Vidyánagar (pronounced Bijáinagar,) formerly the capital of Carnátaca: and is dated little more than four hundred years ago. Grants, by kings of this dynasty, are not uncommon in the Dekhin; and may be of use in determining the dates of their several reigns. These princes were enlightened patrons of science: especially Harihara and Bucca Raya sons of Sangamathe sounder of the dynasty.

MAJOR MACKENZIE forwarded a translation of this inscription made by his interpreter Cavelly Boria. The original is, in some instances, read differently by the *Pandits* whom I have consulted: not however making any change in the purport, nor in any material passage. The following translation is conformable to their interpretation: and the copy, which is subjoined, exhibits the text as read by them.

### TRANSLATION.

Beautiful moon crowning his lofty head; himself the pillar, which upholds the origin of the three worlds.\* May he, whose head is like an elephant's, the son of HARA, the cause of uninterrupted suprema-

25.

<sup>\*</sup> SIVA, or MAHADEVA, is figured with the moon as a crest. According to mythology, he upholds the creator.

This, and the two following stanzas, seem to be the same which are sound, but in a different order, at the beginning of the inscription on the plates preserved at the temple of Conjeveram s (As. Res. vol. 3. p. 39.) with some difference, however, in the reading and interpretation.

of his wife Parvari.

cy, the giver of boons, and the luminary which dispels darkness, \* p.e3. serve us. May the auspicious primeval boar, t by whom closely embraced, the earth exults, grant us vast prosperity.

- 4. The ambrofial moon, brother of the goddes Rama, is the offspring of the milky ocean, † having a common origin with the gem
- 5. Caustubha, the all-productive tree and the ever beneficent come In the lunar race was born a king named YADU, | by a descendant of whom-
- 6. [CRISHNA] fon of VASUDEVA, the earth has been protected. In his line arose a king named SANGAMA, & who abounded in weighty virtues, and shunned the society of the wicked.
  - 7. 'This king had [five] fons, HARIHARA, CAMPA, BUCCARAYA who was fovereign of the earth, T. MARAPA and MUDGAPA.
  - 8. 'AMONG those five graceful princes, the most celebrated was Bucca sovereign of the earth, conspicuous for valor, as ARJUMA

The original is here inaccurate: it exhibits Taras tivra timira gibiró; which means nothing, and in which a syllable is deficient for the metre. In the fac simile of another grant, the same passage is correctly written Varadas tivra timira mibiró.

<sup>†</sup> The incarnation of VISHNU, as a boar, who upheld the earth submerged by the ocean; is well known to all who are conversant with Indian mythology.

<sup>#</sup> The story of the churning of the ocean is familiar to every one.

YADU, the celebrated ancestor of CRISHNA, was of the lunar race.

The pretentions of SANGAMA to be descended from the lunar line of Cshatriyas or Chandravansis, are here afferted,

The names of three of these princes, as well as of their father, occur in the writings of MAD'HAVA-ACHARYA, and of his brother SAYANA-ACHARYA, who were priests and counfellors of those monarchs.

HARIHARA RAJA, and Buccana Raja or Bucca Raya, are named in Mad'hava's commentary on the Vedas, and Campa is mentioned in his grammatical works.

among the Pandavas. Therefore, did Buccaraya, fierce in battle, become a fortunate prince, applying his lest shoulder\* to uphold the burden of the mighty elephants posted at the quarters of the world. When his army, in warlike array, performed evolutions on the frontier of his dominions, the Turashcas selt their mouths parched; the Concana, terrified, apprehended impending death; the Andhras sled, in consternation, to the caverns; the Gurjaras trembled; the Cambojas lost their firmness; and the Calingas were quickly discomsited.

of kings, but acting towards disobedient princes, as the king of birds towards serpents: embraced by the concubines of kings, destroying hostile chiefs, defending the heroes of Hindú Ráya, endowed with knowledge and other qualities.

<sup>.</sup> The text appears to exhibit the negative of Dacshind right.

At the eight principal points of the compais, elephants uphold the world.

<sup>†</sup> This verse is extremely inaccurate in the original: it has been corrected with the aid of the sac simile of another grant beforementioned. It begins Yasyödd haya yudd he yudd ha range, which is unmeaning and contains too many syllables for the metre. It should be, as in the other inscription, Yasyödyad yudd ha range. A syllable was wanting in Turushcüh, written Tushcüh. Two were desicient in Bhaya bhara bharitah expressed Bhava bharitah. Both inscriptions write Cambhójúh for Cambójah. In one, Sapari is erroneously put sor Sapadi.

All the names of nations, which occur in this place, have been repeatedly explained.

<sup>‡</sup> These stanzas are very obscure: and I am not consident, that they are rightly translated. Hinduraya seems to be similar to the Hindupati of Bundelkhand: for so the government of that country was denominated under the chiefs, who ruled it in the last and in the preceding century.

The stanzas appear to be similar to two in the grant preserved at Conjeveram: wiz. 25th and 26th. (As. Res. vol. 3. p. 47). But there is some difference in reading as well as interpretation.

- 13. By that victorious king was Vidyanagari made a permanent metropolis; a fortunate city, which is adapted to promote univerfal conquest.\*
- 14. 'GAURAMBICA became his queers a princes respectable for her virtues; as RAMA the beloved wise of CRISHNA; as GAURS of 15. SIVA; as SACHS, of INDRA; as SARASWATS, of BRAHMA; as CH'HA16. YA, of SURYAT. By the charms of her graceful gaiety, she obscured Tilottama; the by her happy sidelity to her husband, she excited the
- 17. This liberal prince, pre-eminent among kings, begot, on 18. that divine princefs, I a fon named HARIHARA: who is become a protector of the good and punisher of the wicked; who has obtained his

envy of Anasuva de bihatele desagon spout ig hoo s as a sil

In the original, SARASWATI is called VANI; but the fac simile of the other inscription exhibits SAVITRI. SACHI is, in the original, erroneously written SACHI; and jama occurs at the beginning of the verse for nama.

<sup>\*</sup> Vidyanagari fignifies the city of science. FERISHTAH was mislaken, when he affirmed, that it was founded by RAJA BELLAL DEO and named after his son Bija RAY. (Scott's History of Dekhan, Intr. p. xi.) It is believed to have been sounded by the two brothers. HARIHARA and BUCCA RAYA.

<sup>†</sup> The Gods and Goddesses, to whom this happy couple is here compared, are mentioned in the text by titles, some of which are uncommon; and have been therefore changed, in the translation, to others more generally known. Rama is probably intended for Radha as a representative of Lacshmi.

<sup>‡</sup> TILLOTTAMA is the name of a nymph celebrated for her beauty.

ANASUYA is wife of ATRI, and distinguished for conjugal affection. The name fignifican unenvious.

The princels is here termed GAURÍ, which is a title of PARVATI; and which con-

wish, with the wife; who is enviable, and is devoted to the god HARI-

- 19. 'The tree of virtue thrives by water poured with his donations; while he shines with the splendid glory of sixteen kinds of gift.
- 20. 'In the year 1317; ‡ and, of the cycle, Dhata; in the month 21. of Magha and light fortnight; on the day of full moon; under the afterism facred to the Pitris (Magha;) on Sunday; upon the bank of the river
- 22. Tungabhadra, which is adorned by the mountain Hemacuta; in the
- 33. presence of the auspicious deity, VIRUPACSHA; & the valiant HARIHA-
- 34. ally attentive to venerable priests, has graciously given, with gold and
- 22. with a libation of water, to the auspicious descendant of BHARADWAJA
- 23. and follower of the Rigveda, the wife Vishnubicshita PATTABAR-
- 24. DHÍ, son of VACHESPATI surnamed BHILA; and to the learned ANAN-TADÍCSHITA son of RAMABHATTA, a descendant of VASISHT'HA and
- 25. follower of Apastamba's Yajurveda, inhabitant of Ruchangi (a place
- 28. known to have been vifited by the Pándavas,) the fertile and all pro-
- 25. ductive village of Madenahalli, also named Hariharapura, situated in
- 26. the midst of Bhilichedra, east of the village called Arisicer, fouth of
- 27. Gandiceballi, west of Paliavacatá, and north of Bhudihalli, a place to

<sup>.</sup> Solemn donations are ratified by pouring water into the hand of the dones.

<sup>†</sup> Sixteen meritorious gifts are enumerated in treatifes on donation.

Corresponding to A. D. 1395.

A title of SIVA.

The difference of idiom makes it necessary to transpose, in the translation, some of the verses of the original.

- 29. be honoured by all; marked on the four fides by distinct boundaries; together with its treasures, and hidden deposites, its stones and every
- 30. thing which it does or may contain; abounding with objects pleafing to the eye; fit to be enjoyed by two perfons; graced with elegant trees; furnished with wells, cifterns, ponds and banks; to be successively pos-
- 31. fessed by the sons, grand-sons and other descendants [of the grantees], as
- 32. long as the fun and moon endure, subject to be mortgaged, fold or any way disposed of; a village visited by assiduous and gentle priests and attendants, and by various wife persons, who are conversant with holy rites, and surpass in voice melodious birds.'\*

A PARTICULAR description of the bounds of the village, and its land marks, is next inserted in the Canara language. After which the patent proceeds thus.

- of beneficence, magnanimous, and whose sweet strains compose this royal grant. By his command this patent has been framed, expressed in due form, in the sacred tongue.
- THE boundaries of the village on all fides, have been stated in the provincial dialect.
- Or original gift or confirmation of it, confirmation is superior to gift; by generous grants a man obtains heaven; by confirmation of them,

Some parts of this long passage are obscure and doubtful. The last stanza, with two preceding, omitting one, (that is the 29th, 30th, and 32d) appears to be the same with three which occur in the grant preserved at Conjeveram, viz. 43d, 44th, and 45th. (As. Res. vol. 3. p. 51). But there are some variations between the reading of them in this inscription, and in the copy of the Conjeveram plates, from which Sir W. Jones made his version of that grants and, in a few instances, the interpretation, which I have adopted, differs from his.

<sup>†</sup> This passage may indicate the artist's name, Vanideva.

an unperishable abode: for the confirmation of another's donation is twice as meritorious as a gift made by himself; and his own munificence is rendered fruitless by resumption of another's grants. He, who resumes land, whether bestowed by himself or by another, is born an infect in ordure for fixty thousand years. In this world is one only fister of all kings, namely land, which has been conferred on priests: \* she must not be enjoyed nor espoused, † This general maxim of duty for kings, should be strictly observed by you in all times: so RAMACHANDRA earnestly conjures all future sovereigns. ‡

· Śrí Virúpácsha; or the auspicious deity with uneven eyes.'s

श्रीगणधिपतयेनमः॥ नमन्तुङ्गशिरसुम्बन्द्रवामर्वारवे॥ चैलेक्बनगर्रमायूक्सभायर्भवे॥ १॥ अ
व्याद्य हतेस्वर्यकार्यवार्याननः॥ वरदस्तीवतिमिरमिहिरोहर्नद्दनः॥ २॥ श्रीमानादिवरहेग्यःश्रियं
दिर्गुपूयसीं॥ गाष्मालिङ्गिनायेनमेदिनीयचमादते॥ ३॥ अस्तिकेस्त्रभ कल्पदुकामधेनुसहोदरः॥ रमा
नुजः खुधानायः श्रीरसागर्स भावः॥ ४॥ उद्भूद न्वयेतस्य यदुर्माम महीपतिः॥ पालितंयन्तुलीनेन
वाख्यदेवेनभू न लम्॥ ५॥ अभूदस्यक्तिश्रीमान्भूमीगुरु गुयोदयः॥ अपास्तुद्रितासङ्ग सङ्गमानामभूप
तिः॥ ६॥ आसन्हरिहरः कम्पोबुक्षययमहीपतिः॥ मार्पामुद्र पश्चितिक्मारसस्यभूपतेः॥ ७॥ पञ्चा
नां दृप्रगाचार्याप्रस्थाते। वृक्षभूपतिः॥ पसिद्धविक्रमामध्यः पार्डवानामिवान्द्रनः॥ न ॥ दिक्करीन्द्रध्य
धारदिश्य स्क न्यवन्धरः॥ वृक्षययस्तः श्रीमानसीदाह्य कर्कशः॥ ए॥ यस्योद्यद्यद्वस्तृवितरितप

<sup>\*</sup> The terms may fignify " fully granted away, or properly bestowed."

In mythology, as well as in figurative language, the earth is wife of the fovereign. With an allufion to this idea, land, which has been granted away, is here called the king's fifter: and his feizure of fueh land is pronounced incessuous.

The expression, which has been translated espeused, (caragrabya, literally, to be taken by the hand), will also signify subjected to taxation: for cara signifies tax as well as hand.

<sup>†</sup> This appears to be a quotation from some poem (a Purana or Ramayana). The whole of the concluding part of the inscription (comprised in five stanzas) seems to be the same with the elose of the grant on plates of copper preserved at Conjeveram. See As. Res. vol. 3. p. 53.

f This fignat ure is in Canara letters.

रितलाग्डवंमग्डलाग्रेवल्लेम्बान्तम् व्याभयभरभितः वेद्वागः एद्वितायः॥ संधारं धारिधावन्यध म मनतयागुर्ज्जरजञ्जेरङ्गाःबाखाजाः चिन्नधैट्याः सपदि समभवन्या प्रभङ्गाः व सङ्गाः ॥ १०॥ र्रजिधिर जलेजस्वीयोगजपरमेम्बरः॥ भाषानिरिङ्गिभूपालभुजङ्ग मिवर्चगगर्॥ १९॥ गजवेश्याभुजङ्गीयःप रगयतपङ्करः॥ हिन्दुगयस्य वागः शास्त्रित्वादि भिरन्तितः॥ १२॥ श्रीविद्यानगरीविश्वविज्ञये।दयशाः लिनो ॥ एक विजयिनायेनएजधानो छतास्थिए ॥ ९३ ॥ तस्योगस्थितानाममं हिषीस् मजायत ॥ माननी . यगुणामायावद्भमस्यवारमा ॥ १४॥ कपिईनायबागैरी श्चीवनमुचिदिषः । पिता महस्वसाविचीकाये बद्युम ग्रेरिव ॥ १५॥ विलाग् विभ्रेमाझा सतिरस्क्र ततिले। हमा ॥ अनस्य यापिसास्य यायाति बत्यस म्परा ॥ ९६ ॥ अही नभाग सम्पनिरसी एजशिखामिशः॥ तस्यां हरिहर द्वीर्ट्या तुमा रप्तर पार्यन्॥ ९७॥ शिष्टान्संरिक्षताय युरुष्टानाम विशासकः ॥ लक्षाप्रीविदुषासानं स्वाद्योहित हरेपरः ॥ १८॥ यसिन् धाउग्दानानियण्सापरिशोनिते ॥ दानामुधार्यायस्वद्भितेधर्मपादपः॥ १०॥ ऋषिभूविहि चन्द्रे तुग सितिधानवत्सरे ॥ माघमासे मुजा पक्षे पैर्शामास्याम सातिथी ॥ २०॥ नक्ष चेपितृदेवत्येभानुवारे ससंयु ते॥ तुङ्ग भद्रानदीनिरे से मक्डापशिभिते॥ २१॥ श्रीविक्षपक्षदे वसास्तिधे सुभदायिने॥ भारदा उस ह्वृगानायव वाग्रेसएयव ॥ २२॥ वावस्पतिनितात्यस्यस्त्रनवेस्त्र नतात्रये॥ पट्टबर्इनिनेविष्ठनुदीक्तिन्द्रा यधीमते॥ २३॥ विश् छ गाव जायापसं व्यशाखा ग्रयायिने॥ समभट्ट छतान नारी हितायविष स्ति॥ २४॥ प्रसिद्धपाग्डवाक्रा नक् चिक्क स्य लवासिने ॥ भिलिचन्द्राभिधासीमामध्येखानं महोदयं ॥ २५॥ पूर्वमा गेस्थिनंग्रामादि (सीकेर संज्ञकान् ॥ गडिकेल्ल्याभिधाङ्गामा ह् श्चिगांदि श्माश्चितं ॥ २६॥ ग्रामा त्य छ। वक टाखानांनीचामिनुखात्रितं॥ ग्रामाच्चमूदिक्लाखादुत्तरसंगदिशित्रितं॥ २७॥ प्रतिनामासमाखातं पुरंह ि इरिमधं ॥ मादे न इद्योतिग्रामं स वस्यस्म निवतं ॥ २८ ॥ सर्वमान्यञ्जतुः सीमास्यु तञ्चस्म न्ततः ॥ नि धिनिः श्रेपपाषा गासिद्ध साध्य समन्वितं ॥ २० ॥ अशि एयागा मिसंयुक्तं विभाग्यं रम्भू इम्। वापीवू पत्र उ गैन्वतः व्योगापिसमन्वितम्॥ ३०॥ प्रवीशवादिभिन्नाग्यं इतमादा चन्द्रतार् कम्॥ स्वस्थाधमनस्यापिविद्रायस्यापि वावितं॥ ३९॥ परीतं प्रयते : स्ति वे पुरे स्तिपुरे गमेः॥ विविधे विवेधे श्री तापयिकेर पिकेशिरा॥ ३२॥ विरेस् रिहरसाभ्नाननीयामनस्विना॥ भूरानपानभूतात्माभूखरात्माविशेषतः॥ ३३॥ सहिरस्यपयोधारपू विवास्त्रवासुदा॥-—॥ इटमिलिल एजशासन मधुकरकारगीतमङ्गानानः॥ सहीहरिछ् रत्यमतः शासनम चलैकपारिजातस्य॥ तस्यतच्छासने नैवशासनंतुविनिर्मितं ॥ शासनाचाट्यधर्मेश्व णिदेवेन शिक्षितम्॥ असिन्यामेअष्टदिश्च सीमादेशभाषया लिखिता ॥ दान पाल नयार्भ छेदाना च्क्रू यानु पालनं ॥ दानात्क्रमवान्नीतिपालनाद्चानम्यदं ॥ स्वद्नाद्विगुगंपुग्यम्पर्नानुपालनं ॥ परदन्नापहा रेणस्वद नंनिः फर्लभवेत्॥ स्वदनामग्द नंवियो स्रेतवसुन्धरं॥ विष्विधस्त्वाणिविछायो जायते स मिः ॥ एकैवभिनिनेनिकिष्विष्मिवभूभुकां ॥ नभीकानकायाह् विषद नावर नवर ॥ समान्धेरंधभैसे . तुर्देपाणांनालेनालेपालनीयामवद्भिः॥ स्वीनेतान्भाविनःपा विवेद्धान्भूयोभ्योयाचतेसम् दूः॥ 😵 ॥

IV. Another and similar Inscription found at the same place.

WITH a fac simile of the foregoing inscription, Major MACKENZIE communicated the copy of another inscription found also at Chitradurg and in the same year. The whole of the introductory part, containing the name of the prince, and his genealogy, is word for word the same in both grants: excepting a few places, where the variations are evidently owing to mistakes of the artist, by whom the plates were engraved. I have consequently derived much assistance from this sac simile in decyphering the original inscription before described.

THE grant, here noticed, is by the same prince, and dated in Saca 1213; only sour years anterior to the one before translated. I think it, therefore, unnecessary, to complete the decyphering of it, or to insert a copy or translation merely for the name and description of the lands granted, or the designations of the persons on whom they were bestowed.

Concerning the similarity of the grants, it may be remarked, that this circumstance is not a sufficient ground of distrust; for it cannot be thought extraordinary, that a set form of introduction to patents should have been in use; or that grants, made within the space of sour years, by the same person, should be alike. I must acknowledge, however, that the inaccuracies of the original have impressed me with some doubt of the genuineness of the preceding grant. I do not, however, suspect it to be a modern forgery; but I apprehend, that it may have been sabricated while the upper Garnátaca continued under the sole domination of Hindu princes. Still it may not be without its use, as an historical monument; since it may be fairly presumed, that the introductory part is copied from a more ancient monument; perhaps from that, with which it has been now collated.

V. Inscription on a Stone found at Curugode in the district of Adoni, Another ancient monument, for the communication of which the Aliatick Society is indebted to the same gentleman, whose zeal for literary research, and indefatigable industry in the prosecution of inquiries, cannot be too much praised, was found by him in the upper Carnalaca in 1801, and has been presented to the Asiatick Society, with the following account of its discovery and of the inscription which it contains.

"The accompanying stone was found at Kurugode, sourteen miles north of Ballári, not far from the Tung-bhadrá, among the ruins of the ancient town at the foot of the Durg; and was removed thence, in March 1801, with the consent of the principal inhabitants, under the impression, that this specimen of ancient characters, with which it is covered, would be a desirable acquisition to gentlemen who cultivate the study of Hindu literature.

"The inscription is chiefly written in the ancient Canará language much mixed with Sanscrit, of which some of the Slécas or slanzas are exclusively composed. It commences with the invocation of Sambhu (Siva), and after introducing the grant, date and description of the lands, concludes with several Slécas usually added as a formula in confirmation of such donations.

"A rew of the stanzas, said to be written in the Prácrit language, could not be understood by the Sástrís and Pandits at Triplicane, who explained the greatest part of the inscription to my Brahmens: by their

e Adavani.

in which I have every confidence after the experience I have had of the fidelity of other translations by the same hands (some of which are already communicated.)

- THE inscription is useful as an historical record, if the Roja RA-CSHAMALLA, mentioned here, be the same with the sovereign of the same name mentioned in a history of Mysore, who slourished about the eighth century; thus agreeing in date nearly with the monument.
- "The beauty of the character was also a strong motive for removing it, as an appropriate offering to a Society, whose labors have been so successfully employed in illustrating the interesting remains of Hindu antiquity; and a permanent specimen of a character which appears hitherto to have escaped much notice.
- THE common Cánara language and character are used by the natives of all those countries extending from Coimbatore,\* north to Balkee † near Béder, and within the parallels from the eastern Gháts to the western, comprehending the modern provinces of Mysore, ‡ Sera, || upper Bednore, § Soonda, ¶ Goa, Adoni, Rachore, † Canoul, ‡‡ the Duab of the Kishná and Tung-thadrá, and a considerable part of the modern Subahs of Béder and Bíjápur, as far as the source of the Kishná at least. Its limits and point of junction with the Mahrattas may be yet ascertained with more precision; but in 1797, I had the opportunity of observing, that the junction of the three languages, Telinga, Mahratta, and Canara, took place somewhere about Béder.

Ceyamutur. † Phâlaci. † Mebisur. | Sirā. § Pednur. ¶ Sundā †† Füchur. †‡ Çandanur:

- Besides the common character and language, another appears to have been used, denominated at present the Halla or ancient Cánara, in which this inscription is written: it has gone so much into disuse, that it was with some difficulty I could get people to read it. An alphabet will be yet communicated; as several books and ancient inscriptions are written in this character: and the remaining literature of the Jains in Bálághát, appearing to be preserved in it, affords additional motives for pointing it out to the attention of the learned, as probably affording means of extending the field of knowledge of Hindu literature.
- \* Some of the infcriptions, at Cánara and Salset, appear to be written in this character; and many monuments of the kind, dispersed over the upper Carnatic, hold out the prospect of further information.
- Among several manuscripts in Cánara, five, relating to the Jain realigion and customs, are in my possession,
- The name of Cavelly Boria, a Brahmen, who was highly instrumental in forwarding and facilitating the investigations carried on in
  Myfore and the Nizam's dominions, is inscribed on the edge of this stone,
  as a small tribute to the zeal and sidelity of a native who evinced a
  genius superior to the common prejudices of the natives. He first suggested the idea of removing the stone to some place where it could be
  useful to European literature; and, by his conciliatory manner, obtained
  the concurrence and assistance of the natives for that purpose,

THE stone, sent by Major MACKENZIE, with the foregoing account of the discovery of it, is nearly sive feet high, and three wide, and about ten inches thick. The front is covered with writing in large characters, above which is a representation of the Linga in the form usual in

temples; it is furmounted by a fun and crefcent; and near it stands a bull, intended perhaps for the bull called *Nandi*, a constant attendant of Siva: this is followed by the figure of a smaller animal, of similar form. The back of the stone is half covered with writing.

The translation, mentioned by Major Mackenzie, is here subjoined. Not being acquainted with the character, in which the original is written, I have not collated the version; and have therefore used no freedom with it, except that of substituting, in many places, English words for Sanserit, which the translator had preserved.

#### TRANSLATION.

ADORATION be to the auspicious SWAYAMBHU NAT'HA or SELF.

EXISTENT PROTECTOR:

- I. 'I PROSTRATE myself before Sambhu: whose glorious head is adorned with the resplendent moon; and who is the chief prop of the foundation of the three worlds.\*\*
- 2. 'MAY SWAYAMBHU be propitious: he, who won immortal renown; who grants the wishes of those that earnestly intreat him; who pervades the universe; the Sovereign Lord of Deities; who destroyed the state and arrogance of the demons; who enjoyed the delightful embraces of Parvari, to whom the learned prostrate themselves: the God above all gods.
- 3. 'I PROSTRATE myself before SAMBHU; whose unquenchable blaze consumed the magnificent Tripura; whose food is the nectar

<sup>\*</sup> This is the same stanza, which begins the two inscriptions found at Chiradurg, and which likewise occurs in a grant in the possession of a Brahmen at Mandigut; and in that preserved at Conjeveran.

dropping from the beams of the moon; who rejoiced in the facrifice of heads by the Lord of Rácshasas;\* whose face is adorned with families, when he enjoys the embraces of Gauri.

(THE foregoing stanzas are Sanscrit: the fourth, which is Prácrit, is unexplained. Those which follow, are in Cánará.)

- 5. 'By the confort of Devi, whose divinity is adored, the conference of Parvari, resplendent with the glorious light of gems reslected from the crowns of the Lords of Gods and demons whose heads lay prostrate at his feet; with a face ever lighted up with smiles; he is the self-existent deity: may the wealth, and the stations of his saints, be ever granted to us.
  - 6. The beams of whose sight, like the frequent waving of the lotus slower, slashes reslected from the numerous crowns of glorious Kings, of the chief of Gods, of the King of Kings, and of the Lord of Demons; who exists in all things, in all elements, in water, air, earth, ether and fire, in the sun and moon: the renowned deity manifested in eight forms; Sambhu; may be grant our ardent prayers:
  - 7. 'CHEERFULLY I bow to SAMBHU in the lotus of the heart; to him who increases and gives life to all; who holds supreme command over all; who, through his three divine attributes, created and animated fourteen worlds; who ever resides in the minds of his saints.'

(The two next stanzas have not been explained. The following is in Halla Cánará.)

RAVANA.

Rever be propitious to Sóméswara Dévadi, the son of the Shuvana Malla Víra, the protector of the world, the distinguished personage of the noble race, the ornament of the Chaluca tribe whose state be increased programed by in this world, so long as he sure a moon entire; who re in the city of Calyán, enjoying every happiness a good somme, with the converse of good men and every other pleasure. In this country of Cuntaladésa, a land renowned for beauty and for manly strength over all the sea-girt earth, is fituated Condavipatian, placed as the beauty spot on the human sace; a city savored by the goddess of prosperity; as a nosegay of elegant slowers adorning the tresses of the beauteous goddess of the earth.

- of mangoe; plantations of luxuriant betle and fields of rice: in every town are channels of water, and wells, opulent men and beautiful women: in every town are temples of the Gods and of the faints: in every town are men bleffed with vigor and every virtue.
- fastnesses of heaven, ever famed, rearing aloft its top crowned with fortresses. In height and compass surpassing all the strong hills on the sight or left.

<sup>\*</sup> Cuntala Désa, the ancient name of the province in which Curgode is situated; part of

<sup>†</sup> The poet indulges his fancy in describing this favored Durg; but in fact it is only about 250 feet high, and no ways remarkable for strength. M.

- ons by the king of Cuntala, who was the foe of the king of Chela; who terrified the Gurjara; who is the instrument to destroy the plants of Madru; who put Pándya to flight. Is it possible for the king of makes, though possessed of a thousand tongues, to praise sufficiently the beauty of this city?
- 14. WHAT is the description of the delightful gardens that enscompass the city? They are gardens wherein are sound the Tilac, the
  Tamál, the palm, the plantain, the Mimusops, the trumpet slower, the
  tremulous sig-tree, the citron, the Oleander, Mesua, and Cassia, the cotton-tree, the Carambola and Pæderia, the mangoe, Butea and fragrant
  Nalica; and various trees, that slourish and produce through all seasons
  as in the garden Nandan: these surrounded this city of Curogode."

  (The sisteenth stanza is unexplained.)

16. 'In the city of Curugode, the refidence of the goddess of profiperity, where are numerous temples of worship, fertile lands, happy spoules, friendly intercourse, a favorable government, every sacred de-

spouses, friendly intercourse, a favorable government, every facred de-

coration and zealous devotion in the fervice of Siva;

17. 'THE Lord of that city, a warrior unrivalled, whose name was RACSHAMALLA, whose breast is tinged with the saffron communicated from the bosom of beauty, whose renown is ever praised over the whole world.'

Chôla Desa, - - - - The modern Tanjore country.

Gurjara, - - - - Guzarat.

Madru, - - - - - Madura and Trichinopoly.

Pândya, - - - - - Marawar and Tinevelly. M.

(THE eighteenth stanza is in Pracrit, and not explained.)

- 19. This Raja RACSHAMALLA, prince of the earth, born of so released a race of sovereigns, was happily possessed of valor, of victory and of wealth.
- deveut worshipper of SIVA, I for his consort Sómaldeví and begot a son named Negungala Raja, husband to the goddess of renown, the bestower of wealth on the distressed, on the learned, and on the unfortunate, to the utmost extent of their wishes.
- 21. To NERUNGALA RAJA and to his wife PACSHALA-DEVÍ (the fource of all virtues,) were happily born two fons named IMADI RACSHAMALLA and SÓMABHUPALA, whose renown, like the sky, overspread the whole earth.
- Imádi (or the second) RACSHAMALLA RAJA, the successor of the former, seated on the excellent throne, attended by many mighty elephants, in colour like the Chamarí,\* ruled the whole kingdom under one umbrella, possessing the wonderful power, like Chinna Góvinda, of feeding tigers and sheep in the same fold.
- 13. The king RAGSHAMALLA acquired great power: his mighty splendor and good fortune were such as drew the applause of the whole admiring world. The globe was filled with the light of his reputation. The beauty of his person is worthy of the praise even of Cupid, the

Bos Grunniens.

God samed for beauty. He was the destroyer of sin; entirem about foreign kings, and in battle he was as VISHNU.

- 24. 'MAY MRITU [SIVA] graciously bestow eternal was prosperity of empire, on the king RACSHAMALLA, among all his clients.
- DURING the gradual increase of the empire of RACSHAMALLA extending from the north, all around, even to the north, his servant and worshipper, a descendant of Casyapa's race, manager of the assars of Talgara Amari, invested with full authority; equal in knowledge to Yugand'har, the sun to enlighten the caste of Vajinasa [as the sun enlightens the sky;] chief of ministers, born by the blessing of the god Swayambhu, the source of wealth, was Babaraju.

(Several lines follow giving an account of the ancestors of BABA-RAJU, which have not been translated.)

- Such is Babaraju, who built a temple to the God Swayambhu Devi, while he was managing the affairs of his fovereign lord, the mighty king, the great Racshamalla, whose god was the self-existent deity.
  - \* THE praise of the priests of the temple.
- THEY were learned in the facred ceremonies of holy devotion, in felf-restraint, in austere fast, appropriate studies, alms, remembrance, silence, religious practice and the worship of Siva.
- of the gods of the family. Among them, was one named BALASIVA

ACHARYA was granted this gift with water poured into his hands.

the year of Salivahan 1095\* in the Vijeya year of the cycle and on the goth of the month Margasira, on Monday in the time of an eclipse of

(IT appears unnecessary to insert the description of the lands.)

vati, equal to the fovereign of Bhattál, who was acknowledged for ever by the excellent Viracalideva the mighty king of the earth named IMADI RACSHAMALLADEVA. In the year of Sáliváhan 1403,† of the cycle Plava, and on the 15th of Cártica, on Monday, in the gracious time of the moon's eclipse, at the time when he made over in alms Tripura Agraharam, granted under Darapurbac to Balasiva Deva, who repaired all the buildings of the temples of Swayambhudeva who is distinguished for knowledge of the pure Védas, and of other religious institutions and customs of the worshippers of Siva, and for charity in feeding the poor.'

(The sequel of the inscription is likewise omitted: it relates to a further grant made by the widow of BABARAJU, at the time of her burning herself with the corpse of her husband. The concluding part of it was lest untranslated, being stated to be illegible.)

THE eclipses, mentioned in these grants, do not appear reconcileable with their dates. According to the table of eclipses calculated by

<sup>\*</sup> Answering to A. D. 1173. † Corresponding to A. D. 1181.

PINGRE,\* the folar eclipfes, which occurred in 1172 and 1173, fell or 27th January and 23d June 1172 and 12th June 1173; and the lunar eclipfes in 1180 and 1181 were on the 13th Februaryland 7th August 1180 and 22d December 1181. None of these approach to the dates of Margasira or Agrahayana 1095 and Cartica 1103. Unless, then, the era of Salivahana have been counted differently in the peninsula of India, from the mode in which it is now reckoned, and on which the comparison of it with the Christian era is grounded, it seems difficult to account for this disagreement of the dates and eclipses, in any other way, than by impeaching the inscription, the authenticity of which there is not otherwise any reason to question.

# VI. Inscription on a Stone found at KURRAH.

HAVING learnt from Captain C. STEWART, (a Member of this Society), that an inscription had been remarked by him in the gateway of the Fort of Kurrah (Khara), I obtained, through the assistance of Major Lennon, then stationed in the vicinity of that place, the stone itself which contains the inscription. It now belongs to the Asiatick Society.

The inscription is very short; contains the date 1093 Samuat, the name of the prince, as also names of several places; and is written in a very legible character; yet all my endeavours to arrive at any explanation of it have been unsuccessful. Whether it be only a fragment of

Published in L'art de verifier les dates;" and inserted in Playfair's System of Chro-

an inscription (for the stone is very narrow, \*) or the inscription have been inaccurately engraved (and this also is countenanced by its appearance) L'hall not take upon myself to determine. At present, I can only translate the first six, out of sixteen lines, which run thus: "Samvat 1003, ton the first day of the light fortnight of Ashadha. This day, at this auspicious Cata, the great and eminent prince YASAHPAIA, ‡ in the realm of Causamba, and village of Payahasa, commands, that——."

संबत् १००३ आयाण्डम्हि १ अद्येष्ट्यीमलाटे महास्जाधिरज श्रीयरःपालः ती श्राम्वमस्डलेपयहा स्याममहत्त्वम स्याममहत्त्वम त्रमादिश्तियवा यसेसेतीयमात्रु रिवह व्यशासन लंपसादिष्टात्यमन्व साश्सीहातारहिर मबत्यादायादितं

मस्तापनेत ख्रिमिति इण्वन्वेन सङ्घिकं ठासंद्यतं — —

दुर्गयोत्रा — — —

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वह यशास्त्र प्रसिद्धात्मन्व प्रसिद्धात्मन्व

<sup>.</sup> Its height is 4 feet 9 inches, but it is only 9 inches wide.

t Corresponding to A. D. 1037.

<sup>‡</sup> It may be worth remarking, that the inscription, discovered at Saranat'ha near Benares, dated 10 years antecedent to this, relates to a family of princes whose names had a similar termination. Assatick Researches, vol. 5. p. 133.

VII. Inscription on a Plate of Copper found in the district of Division.

In the beginning of the present year (1806,) a plate of cooper was found at Amzāch'hi in Sultānpur, by a peasant, digging earth repair of a road near his certage. He delivered it to the nearest police officer, by whom it was conveyed to the Maginare, Managarante of his forwarded for communication to the Asiatick Society. Amgāch'hi, though now a small village, is described as exhibiting the appearance of having formerly been a considerable place. Remains of old masonry are found there; and numerous ponds are remarked in the vicinity of that and of the adjacent villages. It is situated at the distance of about sourceen miles from Budāl; where an ancient pillar stance of which a description (as well as the inscription, which is read on it), was published in the 1st volume of Asiatick Researches, (p. 131.)

THE plate is very large, being 14 inches high and 13 broad. It is furmounted by a highly wrought ornament of brass, fixed on the upper part, and advanced some distance on the plate so as to occasion a considerable break in the upper lines. The superior surface is covered with writing in very close lines and crowded characters. The inscription is completed on the inserior surface, which contains 16 lines (the upper surface having no less than 33). The character is ancient Dévanágari; and the language Sanscrit: but so great a part of the inscription is obliterated, (some portion of every line being illegible), that it is difficult to discover the purport of the inscription. After wasting much time in endeavouring to decypher the whole of it, I have been able only to ascertain the name of the grantor, and a part of his genealogy; with

the date of the grant, which unfortunately is reckoned only by the reign, without any reference to a known era.

The ornament, affixed to the plate, and representing a seal, contains a single like of writing, which is distinctly read, Sri Vigrahapala.

DEVA. This name are the grantor, is found at the close of the infeription; and it occurs more than once in the body of the patent.

Among his ancestors and predecessors, the following names are distinctly legible.

THE first prince mentioned is LÓCAPALA, and after him DHARMA-PALA. The next name has not been decyphered: but the following one is JAYAPALA, succeeded by DEVAPALA. Two or three subsequent names are yet undecyphered: \* they are followed by RAJAPALA,——PALA DEVA, and VIGRAHAPALA DEVA, and subsequently MAHIPALA DEVA, NAYAPALA and again VIGRAHAPALA DEVA.

So far as a glimple has been yet obtained of the purport of the infeription, it feems to be a grant by VIGRAHAPALA DEVA, in the making of which NAYAPALA likewise appears to have had some share. It is dated Samvat + 12, on the 9th day of Chaitra.

THE use of the word Samuat (which properly signifies a year) to denote the year of the king's reign, and not that of VICRAMADITYA's era, merits particular notice. In the inscription on the plates found at

<sup>\*</sup> One fems to be NARAYANA; perhaps NARAYANAPALA.

<sup>\*</sup> The original feems to exhibit Samat: but this must be intended for Sambat or Samvat.

Mongir, \* containing a grant of land by a prince who appears to be of the same family, the date was read by Mr. WILKINS, Samuat 33; which was supposed both by him and by Sir W. Jones to intend the era of VICRAMADITYA.+ I have always entertained doubts of that interpretation: and, among other reasons for helitating, one has been the improbability, which to my apprehension exists, that the era should have been in use, and denoted by the same abbreviated term, so early after the time at which it commences. Eras, by which nations have continued to reckon for a feries of ages, have not usually been introduced until a confiderable time after the event from which they are counted: and, when first introduced, have been defignated by some more definite term than one merely fignifying a year. But the word Samuat (abbreviated from Samvatsara a year,) being in that infcription prefixed to a low numeral, and not expressly restricted, as is usual where VI-CRAMADITYA's era is meant, was more likely to intend the year of the reigning king (though Sir W. Jones thought otherwise, 1) than that of a period reckoned from the birth, or the accession, or the demise, of another monarch. It appeared to me likewise, as to Captain Wil-FORD, on examining the fac simile of the inscription in question, that the character, which stands in the place of the t of Samvat, refembled more nearly the numeral 1. The date might therefore be 133 instead of 33. Linclined, however, to believe the lower number to have been rightly read by Mr. WIDKINS on the original plate:

<sup>\*</sup> As. Res. vol. 1. p. 123.

<sup>1</sup> Ibid p. 130.

<sup>‡</sup> Ibid p. 142.

Plates I & a in the 1st vol. of As. Res.

and confequently supposed it to be the date of the reign of DEVA-PALA the prince who made the grant. The date of the Amgách'hi. plate, which must be referred to the reign of the grantor VIGRAHA-PALA, seems strongly to corroborate this opinion.

THE present inscription, though yet imperfectly decyphered, appears to be useful towards afcertaming the age of the Mongir grant. The names of DHERMAPALA and DEVAPALA occur in both infcriptions; as that of RAJAPALA does, on the pillar at Budál, as well as on the Amgách'hi plate. Some of these names are also found in the list of princes enumerated in the Ayin acberi \* as having reigned in Bengal before BAL-LALASENA. The authority of ABU'LFAZL, on Hindu history, is indeed not great: but the inscription on the statue of Budd'ha, which was found at Saranátha, near Benares, † proves, that a family of princes, whose names terminated in Pála, did reign over Gauda in Bengal, near eight hundred years ago: and this is confistent with the period to which that dynasty is brought down by ABU'LFAZL; namely the middle of the eleventh century of the christian era. It appears also, from the same inscription found at Saranátha, that these princes were worshippers of Budd'HA, a circumstance which agrees with the indications of that faith in the Mongir grant, as translated by Mr. WILKINS. The name of MAHIPALA, mentioned as king of Gauda in the Saranatha inscription, occurs likewise in the Amgach'hi plate; and if it be reasonable to believe, that the same person is intended in both instances, it will be right to infer, that the grant contained on the plate found at Amgach'hi

<sup>.</sup> Vol. 2. p. 26.

<sup>†</sup> As. Res. vol. 5. p. 133.

is nearly eight hundred years old; and that the plate found at Mongár is more ancient by two or three centuries. This reduces the age of the Mongár grant to the eighth or ninth century of the christian era; which I cannot but think more probable, than the opinion of its being anterior to the birth of Christ.

VIII. Inscriptions on Plates of Copper at NIDIGAL and GOUJDA.

To the foregoing description of several monuments, which have been presented to the Asiatick Society, I shall add a brief notice of two other inscriptions, of which copies have been received.

Mention has been already made of a grant of land, inscribed on five plates of copper, seen at Nidigal, in the year 1801. It was in the possession of a Brahmana residing at that place: and a copy of it was taken by Major Mackenzie, which has been communicated by him to the Society. The grant appears to be from the second Bucca Raja, who was third in succession from the first prince of that name, and grandson of the king by whom the grants before mentioned were made. If the date have been correctly decyphered from the copy of this inscription, it is of the year 1331 Saca, corresponding to A. D. 1409.

ANOTHER inscription, communicated by Major Mackenzie, purports to be a grant by Janamejava, the celebrated monarch who reigned in India at the commencement of the present age or Caliyuga. It is in the hands of the Bráhmens or priests of Goujda Agraharam in Bédnúr; and was, with some reluctance, entrusted by them to Major Mackenzie, who himself took from it a copy in sac simile, the exactness of which is demonstrated by the facility with which the inscription may be decyphered from that copy. The original is described as contained in

three plates of copper, fastened together by a ring, on which is the representation of a seal, bearing the figure of a boar with a sun and crescent. The purport of the inscription, for I think it needless to make a complete version of it, is that 'Janamejaya, son of Paricshit, a inonarch reigning at Hastinápura, made a progress to the south, and to other quarters, for the purpose of reducing all countries under his domination; and performed a sacrifice for the destruction of serpents, in presence of the god (or idol) Harihara, at the consuence of the rivers Tungabhadrá and Haridrá, at the time of a partial eclipse of the sun, which sell on a Sunday in the month of Chaitra, when the sun was entering the northern hemisphere; the moon being in the Nacshatra Aswini.\*\*

HAVING completed the facrifice, the king bestowed gold and lands on certain Bráhmanas of Gautamagráma: whose names and designations are stated at full length, with the description and limits of the lands granted. The inscription concludes with two verses; the same with two of those which occur in the plates found at Chitradurg; and in those preserved at Conjeveram.

In the places marked with dots, the letters are wanting in the original.

<sup>†</sup> See Page 419 of this volume.

<sup>\$</sup> As. Res. vol. 3. p. 52. The verfes are those numbered 50 & 54.

If reliance might be placed on this as an ancient and authentick monument, its importance, in the confirmation of a leading point of Indian. history, would be obvious and great. Major Mackenzie, in communicating the copy of it, expresses a doubt of its authenticity; but remarks, that it can be no modern forgery, for the people themselves cannot read the inscription. I concur with Major Mackenzie both in distrusting the genuineness of this monument; and in thinking, that it is no recent sabrication.

Numerous and gross errors of grammar and orthography,\* which can neither be explained by a gradual change of language, nor be referred to the mistakes of a transcriber or engraver, but are the evident fruit of ignorance in the person who first penned the inscription in Nagari characters, would furnish reason for discrediting this monument, were it otherwise liable to no suspicion. But, when to this circumstance are added the improbability of the copper plates having been preserved during several thousand years, and the distrust with which any ancient monument must be received, where its present possessor, or his ancestor, may have had claims under the grant recorded in it, there can be little hesitation in considering this grant of Janamejaya as unau-

<sup>\*</sup> For example Samāi for Samayi (HAD for HAD) a palpable error obviously arising from the blunder of an ignorant amanuensis writing from dictation. The mistake occurs more than once; and can be accounted for, in no other manner: the syllables if and yie being alike in found, though dissimilar in form; and the blunder being such, as no person, acquainted with the rudiments of the Sanserit language, could have committed. Other instances have been remarked, almost equally strong: as Parieshiti for Parieshit; Chacravariti for Chacravariti. Short vowels for long, and vice versa, in repeated instances; the dental for the palatial s; and numerous other errors of spelling; besides faults of grammar and style.

date of this grant.

thentick: independently of any argument deduced from the character, which is not perhaps sufficiently antique; or from the astronomical data in this inscription, which, however consistent with Indian notions of astronomy and chronology, will hardly bear the test of a critical examination.

## IX. A Grant of Land by JAYACHANDRA, Raja of Canoj.

It may be proper to notice further, in this place, the inscription, of which mention was made at the beginning of this essay, as having been decyphered by a Pandit (Serváru Trivedí) who communicated to me a copy of it, with the information, that the original has been conveyed to England by the gentleman in whose possession it was seen by him. According to that copy, the genealogy of the prince, who made the grant recorded in the inscription, is as follows:

- 1. SRIPALA, a prince of the folar race. So with sin la new sin
  - 2. His fon Manichandra.
- 3. SRÍCHANDRA DEVA, fon of the last mentioned; acquired, by his own strength, the realm of Gád'hipura on Canyacubja (Canój;) visited Cásí and other holy places; and repeatedly give away in alms his own weight in gold. He appears to have been the first king of Canój, in this family.
- 4. MADANAPALA DEVA, fon and fuccessor of SRICHANDRA, it of
- 5. GOVINDA CHANDRA, fon of MADANAPALA.
- 6. VIJAYA CHANDRA DEVA, (the fame with JAYA CHAND,) fon of GÓVINDA CHANDRA; is stated in the inscription as issuing his commands to all publick officers and to the inhabitants of Nágulí assembled.

at Dévapallipatana, enjoining them to observe and obey his patent : which. is recited as a grant of land to two Brahmanas, conferred by him, on the day of full moon in Magha 1220,\* fubfequently to his inauguration as Yuva raja or defignated succeffor and affociate in the empire. The infeription concludes by quoting, from a Purána, four stanzas to deprecate the refumption of the grant: and by a fignature importing "this copper was engraved by JAYAPALA."

WITHOUT having feen the original, no opinion can be offered on the probable genuineness of this monument. But it will be observed, that the infcription is confiltent with chronology: for JAYA CHAND, who is described, in the Ayin acberi, t'as supreme monarch of India, having the feat of his empire at Canoj, is there mentioned as the ally of SHEHABUDDÍN in the war with PRIT'HAVÍ RAJA OF PIT'HÓRA, about the year of the Hejira 588, or A. D. 1192: twenty-eight years after the date of this grant, HIS fon Manichaubra.

## To bringer bending R. E.M. A. R. K. S. sq ASQUARDISC

A rew observations on the general subject under consideration, will terminate this effay, vlastander bus; and places; and redo bus his bailt

Most of the ancient monuments, which have been yet discovered, contain royal grants of land; framed, commonly, in exact conformity to the rules delivered by Hindu writers who have treated of this fubject. That durable memorials have been usually framed to record

I. VIJAYA CHAWBRA DEVA, (the fame with JAYA CHAND,) fon of

Corresponding to A. D. 1364: in the interest of Andrews Admirol . † GLADWIN'S Translation, vol 2. p. 119.

bolt mas lakel vol. 3. p. 50. Digent of Hindu law, vol. 2. p. 278.

other events or circumstances, there is no reason to suppose; and this confideration is sufficient to explain the comparative frequency of momiments which recite royal grants. It was the interest, too, of persons holding possession under fuch grants, to be careful in the preservation of the evidence of their right. But this circumstance, while it accounts for the greater frequency of monuments of this description, suggests a reason for particular caution in admitting their genuineness. Grants may have been forged in support of an occupant's right, or of a claimant's pretentions. It will be, therefore, proper to bring a confiderable portion of distrust and jealousy to the examination of any inscription on ftone or metal, alleged to be ancient, and now possessed by persons who have any claims or pretentions under the grant which it contains. But no fuch cause of jealousy exists, where the monument in question favours no one's pretentions, and especially where it is accidentally difcovered after being long buried. It is indeed possible, that such a monument, though now cafually found, may have been originally a forgery. But even where that may be suspected, the historical uses of a monument fabricated fo much nearer to the times to which it affumes to belong, will not be entirely fuperfeded. The necessity of rendering the forged grant credible, would compel a fabricator, to adhere to history and conform to established notions: and the tradition, which prevailed in his time, and by which he must be guided, would probably be so much the nearer to the truth, as it was less remote from the period which it concerned.

In the present state of researches into Indian antiquities, the caution here suggested appears to be that which it is most requisite to observe. When a greater number of monuments shall have been examined and

compared, more rules of criticism may be devised; and will, at the same time, become particularly requisite, should the practice arise of purchasing ancient monuments; or of giving rewards for the discovery of them. At present no temptation exists for modern fabrications, and little caution is therefore necessary to avoid imposition.

for the greater of Meser of recommends of this description, beginning really for particular carrier is educating their genuine office Canalagery have been forgod in It aport of an occupant's right or of a themant's. ... presentions, it will be, trepplote, propor to bring a confidently not been no approximate one to reliablished out of a last bac freshe to not flowe or mond, alleged to be ancient, and new purched or profess who have any claims of presentions, water the grant, which it contains. But no fach caule of jealoufy exilly where the monument in quellier la. yours no one's presentions, and especially where it is accidentally diff. covered affer being long buried. It is indeed pullite, that first a warnament, shough now calculty found; may have been originally a forgery. But even where that may be fulleded, the hillorical ults of a monument libratest to much meater to the times to which it affirmes to belong, will notible mirely laperfeded. The necessity of are desired the forged grant credible, would compel a librication to adhere to hittory and conform to embidized notions; and the tradition, which provided as his time, and by which he mad be guided, would probably . be to much the bearer to the truth, as it was left remote from the pinethem sees at the bo

In the parient flate, of references into Indian antiquities the emphans have (aggreed appears to be that would in the multi-word for examination of without which that their take toom demillable to

#### NOTE to Vol. 7. Page 180.

A RASSAGE in the preface of the Sarngadhara padd'hati, and another in the body of that work, which were first indicated by Capt. WILFORD,\* show, that a term, contained in the inscription on the column at Delhi, for which I proposed to substitute, with the advice of the Pandit who assisted me, the word 'Báhujáta' as a conjectural emendation, must be read 'Cháhúmána,' or 'Cháhavána;' being the name of the tribe to which the prince, there mentioned, belonged, and which is well known ... at this day under the appellation of Chauhan. In the preface, SARN-GAD'HARA describes himself as second in descent from RAGHUDEVA, a priest attending on HAMMÍR king of Sácambharí, of the tribe of Chauhán, Cháhuván, or Báhuvána (for the name is variously spelt in different copies.) The work itself is a compilation of miscellaneous poetry arranged under diffinct heads; and one chapter (the 73d) is devoted to the admission of stanzas concerning individual princes. Among them two stanzas occur, which are there cited as an inscription on a royal column of stone erected as a facrificial pillar; + and which, on comparison, are found to be the same with the two first of the stanzas on the pillar at Delhi. Several copies of the Sárngadhara padd'hati have been . collated: in all of which, the term in question is written Bahuvana. Comparing this with the preface of the same compilation, and with the . inscription itself, we may be allowed to conjecture, that Cháhuvána is the correct reading: the Nagari letters and being very liable to be confounded.

<sup>\*</sup> Page 189 of this volume.

<sup>†</sup> स्ता नृपतिपाषः स्यत्रयूप प्रस्ते ।॥

ON the GRAMAS or Musical Scales of the HINDUS.

#### BY J. D. PATERSON, Esq.

WHEN music was first reduced to a science, it is probable, that it was confined to the sew scientistic men, whose education and studies settled them to understand its principles; and that the first efforts of the science were displayed in hymns to the deities: each being addressed in a peculiar style of music, distinguished from the rest by its particular mode, rhythmus and expression.

According to Plato,\* the Egyptians were restricted by their laws to certain fixed melodies, which they were not permitted to alter; he says, that the lawgivers of Egypt appear to have laid it down as a principle, that "Young men in cities should be accustomed to beautiful figures and beautiful melodies, and that it was one of their institutions to exhibit in their temples what these were, and what the qualities which they possessed and besides these it was not lawful either for painters or other artificers to introduce any that were new, or even to think of any other than those belonging to their country." He adds, "Nor is it lawful at present to do this either in these particulars or in the whole of music. If you observe, therefore, you will find, that paintings and sculptures there, which were executed ten thousand years ago, as if they were not of such great antiquity, are neither more beautiful nor

on Legislation. Dialogue 2d.

more deformed than the paintings or carvings of the present day, but are fashioned by just the same art."

WHEN CLINIAS observes, that he spoke of a wonderful circumstance, he replies, "It is, however, a circumstance pertaining to law and politics in a transcendent degree, you will likewise find other things there of a trisling nature, but this respecting music is true and deserves attention, because the legislator could firmly give laws about things of this kind and with considence introduce such melodies as possessed a natural rectitude: but this must be the work of a God, or of some divine person; just as they say there, that their melodies, which have been preserved for such a length of time, are the Poems of Isis."

PLATO confiders this restriction as proper and necessary to prevent the introduction of sensual licentiousness and esseminacy. There appears to have been some such idea of restriction, amongst the antient Hindus, by the consinement of their music to thirty-six melodies: viz. the six Rágas and thirty Ráginis: the forty-eight Putras are melodies, which seem to have been introduced in after times, when the discipline, assured to by Plato, had begun to be relaxed.

But the Indian Rágas and Ráginís are fixed respectively to particual lar seasons of the year and times of the night or day. This is a circumstance particularly deserving remark, as it is probably peculiar to the Hindu music.

It is likely, that these melodies were in sormer times appropriated to the service of different deities. In such case, the Rágas or Ráginis would derive their appropriation to particular times and seasons, from

the times and feafons allotted by the Hindu ritual for the performance of the fervices, to which they were respectively appropriated. This appears probable: but whatever might have been the original caufe of this apparent fingularity, it has become fo completely engrafted on the ideas of music amongst the natives of India, that they cannot at this day divest their minds of the prejudice. The muslemans have universally adopted it; and a performer, who should fing a Raga out of its appropriated season, or an hour sooner or later than the time appointed, would be confidered as an ignorant pretender to the character of a musician. This restraint upon their music, which Europeans would think insupportable, the Indian confiders as absolutely necessary to give a true relish to the melody. The origin of this custom seems lost in antiquity. No Hindu, with whom I have conversed, has been able to account for it. We may, therefore, suppose it probable, that it originated, as I have obferved before, in the religious restraints to which music appears to have been subjected, when first reduced to fixed principles as a science.

Music must have been cultivated in very early ages by the Hindus; as the abridged names of the seven notes, viz. sa, ri, ga, ma, pa, dha, ni, are said to occur in the Sama Véda; and in their present order. Their names at length are as sollow:

Shadja pronounced Sarja or Kharja.

Rishabha pronounced Rikhabh.

Gánd'hára.

Madhyama.

Panchama.

Dhaivata.

Nisháda pronounced Nikhád.

HENCE we find, that the abovementioned abbreviated names of these notes, which are used in what we call Solfaing or Solmization, are the first syllables of their names, viz: sa, ri, ga, ma, pa, dha, ni. The complete scale is called Swaragrama or affemblage of tones; it is likewise called Septac or beptachord, as containing, or consisting of, seven notes.

THE Hindus place the seven notes under the protection of seven.

Ad'hisht'hátri Dévatás, or superintending divinities, as follow:

Shadja, under the protection of Agnis
Rishabha, of Brahma.

Gándhára, of Sarasvatí.

Mad'hyama of Mahadeva.

Panchama, of Srí or Lacshmí.

Dhaivata, of Ganesa.

Nisháda, of Surya...

Or these notes, there are sour descriptions: 1st the Badi, which is the Ania or key note; and is described as the Raja on whom all the rest depend; the 2d is Sanbadi which is considered as the Mantri or principal minister of the Raja; the 3d are Anubadi, described as subjects at tached to their Lord; 4th Bibadi, mentioned as inimical to him.\*

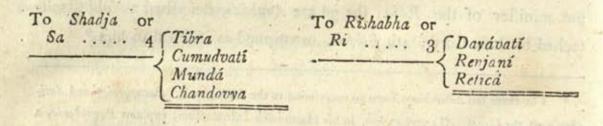
<sup>\*</sup> The three last distinctions seem to correspond to the Homophonia, Paraphonia, and Antiphonia of the Greeks. GAUDENTIUS, in his Harmonick Introduction, explains Paraphonia, a
mean between consonance and dissonance; where the found, to the ear, appears consonant.

H. T.

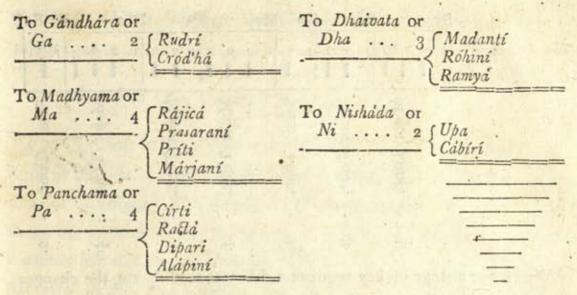
The Hindus divide the octave into twenty-two intervals, which are called Sruti, by allotting four Sruti to represent the interval which we call a major tone, three to describe a minor tone, and two the semitone: not as being mathematically just, but as means of representing to the eye, and to the understanding, the supposed relations which these intervals bear to each other; merely to show, that a semitone is half a major tone, and that the minor tone is a medium between the major and semitone, being less than the sormer and greater than the latter. Mathematical calculation is out of the question.

Perhaps they were induced to make this division of the octave, by considering the minor tone as not divisible by two, without a fraction; and therefore made the whole number three, to represent it: for, if we divide the octave into twelve semitones, this will give twenty-four quarter tones or Sruti; but by allowing three to represent each of the two minor tones, instead of four, there will remain only twenty-two, the number of Sruti admitted.

THE Śrulis are personified as so many nymphs; and, in the Sangila Retnácara, are thus named and arranged. †



<sup>†</sup> The names, exhibited in the Sangita Dâmodara, are quite different. They feldom occur except in the writings of authors treating on music. H. T. C.



The Hindus have three Gramas or scales: viz. Shadja-Grama, Madhyama-Grama, and Gandhara-Grama. The foregoing arrangement of the Śruti is that of the Shadja-Grama, which consists of two disjunct, but perfectly similar, Tetrachords, separated by a major tone. The Madhyama-Grama is formed from this, by a transposition of the major tone between Pa and Dha, and of the minor tone between Dha and Ni; thus separating the two major tones observed in the former Grama; or, in the technical language of Hindu music, Dha takes one Śruti from Pa, and becomes thus possessed of four, leaving three to Pa.

THE two Gramas may be thus represented.

Tetrachord.					Tetrachord.					
I MINISTER	Sı	Ri	Ga Ma	ı I	Pa	Dha	Ni Sa			
Shadja Gráma,	1. 2. 3.	4 1. 2. 3.	1. 2. 1.	2. 3. 4.	1. 2. 3. 4	1. 2. 3.	1. 2.			
er til 2000 mark	Major	Minor	Semi	Major	Major	Minor	Semi			
disk. In the	Tone,	Tone,	Tone,	Tone,	Tone,	Tone,	Tone,			
		- 1	1 +			- 1				
1	4 -	ćo	10	44	- 44	Ço	10			

	Sa ]	Ri	Ga Ma	a 1	Pa	Dha	Ni Sa
Madhyama Gráma,	1. 2. 3. 4.	1. 2. 3.	1. 2. 1.	2. 3. 4.	1, 2, 3,	1. 2. 3. 4	1. 2.
	Major	Minor	Semi	Major	Minor	Major	Semi
	Tone,	Tone,	Tone,	Tone,	Tone,	Tone,	Tone,
				4			7
	4	ço	10	4	ç,	4	. 10

WHEN the change of key requires a different modulation, the changes in the disposition of the Sruti are called Vicrit: they reckon twelve fuch.

When a note is to be rendered graver or deeper, they say that such a note takes one or more Śruti from the note immediately below it, as in the example of the change from the Shadja Grama to the Madhyma Grama, where Dha is made one Śruti slatter than in the former scale-

Ir a note is to be raifed, the expression is, that such a note gives one or more Sruti to the rote immediately below it; which operation renders the note proportionally sharper, as its distance from the note immediately below it is consequently increased; and, to that immediately above it, the distance is in the same proportion diminished.

THE Gandhara Grama is formed from the Madhyama Grama; and, in the construction of it, the Sangita Darpana points out three changes in the scale.

ift. Gánd'hára takes one Śruti from Rifhabha, and becomes of three i. e. by rendering the third note Ga flat, the interval between Ri and

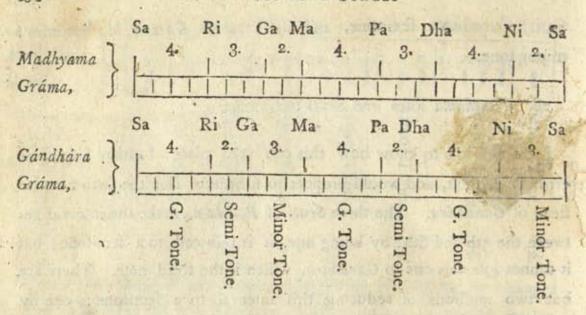
Ga is reduced to a femitone, and that between Ga and Ma becomes a minor tone.

#### 2d.) Panchama loses one Sruti to Gandhara.

I wat a loss to know how this can take place: I rather suspect an error in the text, and would propose to substitute Dha the sixth note instead of Gindhara. The three Sruti of Panchama make the interval between the 5th and 6th: by losing one, it is reduced to a semitone; but it cannot lose this one to Gindhara, which is the third note. There are but two methods of reducing this interval to a semitone: one by raising the sisth note; the other by rendering the sixth slat. But here the interval between the 4th and 5th remains unaltered. It must in this case be done by making Dha the 6th note slat; or, in the language of Hindu music, by giving one of Panchama's Srutis to Dhaivata.

3d. Suddhaswara gives one Sruti to Nishada. Here Nishada is rendered one Sruti flat. Suddhaswara is not the name of a note; but is explained to me to be a term applied to a note possessing its full compliment of Srutis. It may, therefore, be applied, in this case, to Dhaivata; for, although it may give one Sruti to Nishada, yet it gains one from Panchama, and still retains sour complete Srutis.

Is these conjectures are admitted, and we compare it with the Madhyama Grama (to which these changes evidently refer), it will stand thus:



THAT the Hindus probably, by this division of the octave, meant nothing more than what I have before supposed, may appear from the following table, in which the intervals, between each note and the note above it, are taken from Mr. Malcolm's series of the octave in the two modes (as given by Mr. Chambers under the article scale). This I have done, in order to compare those intervals with the Sruti of the Hindus, and to show the difference.

Malcolm's feries of the octave.

† † † † † † † †

or Madhyama Gráma.

Proportion of the intervals between each What they ought to be if the scale was di-vided into 22 parts or the wholestring into 44. What they are as flated by the Hindus. difference between note, and the note above it. 1 & 1 45. 10 景卷 李 345 45 3 482 4 25 2 10 李恭寺 37 12 214 15 3 80 3 3 214 1 & 15 75 4 15 & I 175 2 10

> or Gándhára Gráma.

C	andhare	i Grama	•	
The difference between.	Proportion of the intervals between each note, and the note above it.	What they ought to be if the scale was divided into 22 parts or the whole string into 44.	What they are as stated by the Hindus.	A DE STATE OF THE PARTY OF THE
1 & 3	\$	48	. 4	
8 & 1 6	lo de la	25	2	100
1 & 1	ls	3 3 7	3	1
4 & 4	ds	31	4.	N NA
3 & 3	1 44 OW	15	2	134
1 & 3	75	310	4	1
5 & ±	r's	24	3	

Is we revert to the Shadja Grama, we shall find it composed of two disjunct, but perfectly similar Tetrachords, separated by a major tone: both Tetrachords are expressed by the same numbers 4. 3 and if we reject the fractions of the first Tetrachord in the foregoing table, we have the same number: and, as they considered the 2d Tetrachord as perfectly similar to the first, they probably made use of the same numbers to express that similitude.

THERE are three kinds of characteristic melody for the structure of Ragas, either by the use of all, or the exclusion of one, or two, particular notes. Those Ragas, in which the whole seven notes are employed, are called Hamir, huran. Those, which exclude one particular note, and only use the remaining fix, are called Cad hir. Those, which exclude two particular notes, and only referve five, are called Orav. There is a passage in DR. BURNEY's history of music, and one in the British Encyclopædia (speaking of the Guglia Rotta,\* or the broken pillar lying in the Campus Martius at Rome,) by which it appears, that there is on this pillar or obelifk the figure of a mufical infirument with two strings and with a neck; that, by the means of its neck, this instrument was capable, with only two strings, of producing a great number of notes; that these two strings, if tuned fourths to each other, would furnish that feries of founds called by the antients Hehlachord, which donfifts of a conjunct Tetrachord as B. C. D. E; E. F. G. A; if tuned in fifths, they would produce an octave, or two disjunct Tetrachords.

A fragment of an Egyptian obelifk of the highest antiquity, which had been brought to
Rome under Augustus. It is covered with Hieroglyphics.

This may possibly explain the principle of the construction of the Shadja Gráma of the Hindus; and there is a similar instrument still in use, called Dwitantrí, which I have often seen and heard; and, as far as I remember, tuned in sistes. It consists of a wooden body, hollowed out and covered with parchment; it has a neck and two strings, and is structured with a plectrum.

THE Madhyams Grams is evidently our major mode; and, if I am right, that of Gandhara is our minor mode.

THE extent of the Hindu scale is three Septacas; which are thus fancifully described: the lowest or first Septaca, called Mundra sthana is derived or produced from the navel, extending upwards to the chest; the second Madhyasthana, from the chest to the throat; the third Tarasthana, from the throat to the brain.

THE scale is denominated Grama, (literally village,) because there is in it the assemblage of all the notes, Srutis and Murchhanas, arranged in their proper places, as mankind assemble in towns and villages, and there assume their different degrees and stations.

In considering the names given to the three Gramas, it appears to me, that the Shadja Grama takes its name from the lowest note in that scale, as being the soundation of the first Tetrachord; the second Tetrachord being apparently formed from the first by sistes: in which case the 6th must necessarily be more acute than in the Diatonic scale; and the interval between the 5th and 6th is therefore represented by sour Erutis to signify, that Dha bears the same proportion to Pa, that Ri

Change to define its crypton

does to Sa. The intervals of the Shadja Grama may be represented as follow:

THE modulation of the Madhyama Grama probably took its rile from making Madhyama the 5th note in the scale: in which case your will have

This is precifely the diatonic scale of the Greeks; and here it became necessary to render Dha a comma lower in the scale, which the Hindus express by making Dha receive one Sruti from Pa. The alteration, thus suggested, they adopted; and with it formed their 2d scale from the Shadja Grama, giving it the name of Madhyama, probably to denote its origin.

THE Gándhára Gráma appears to have a fimilar origin; by making Gándhára the 5th. This will produce.

Which is the natural minor mode of La: but keeping Sa as their. first note, the Vicrits, or changes before mentioned, became necessary; to give it the same modulation; and it was probably called Gándhára Gráma to denote its origin.

ner el ne.

Or the notes and Srutis I have spoken above. I shall now endeavour to explain what these Mürchhanás are; or rather what I conceive them to be: Each Grāma is said to contain seven Mürchhanás: hence they reckon twenty-one in all.

Jones fays they appear to be no more than feven species of diapaton multiplied by three, according to the difference of pitch in the compass of three octaves.\* But the Murchhanás are described to be the seven notes, each arranged in its proper station in the scale, which renders them sit to be applied in the composition of the Rágas &c. It appears to me therefore, that they are the intervals of each Grama, which I would arrange as follows.

THE Shadja Grama is composed of two disjunct but perfectly similar Tetrachords, separated by a major tone, and both Tetrachords have a major third; the Murchhanas of this Grama I suppose to be

```
1st. from Sa to Ri
2d. —— Sa to Ga
3d. —— Sa to Ma

1st. 2d.
3d.
3d.
4th. from Pa to Dha
2d.
2d.
4th.
5th. —— Pa to Ni
6th. —— Pa to Sa
7th. —— Sa to Sa
8 octave.
```

In citing a passage from the Epick Poem on the death of Sisupala, which is entitled Magha, Sir W. Jones translated Murchhana, "musical interval." (See As. Res. vol. 1st. p. 265.) He afterwards gave a different interpretation of it, (vol. 3d. p. 71,) as stated in the text. In his version of that passage, Sir W. Jones mistook the meaning of the term. Sruti, (which is there translated ear, instead of quarter tone,) but he has rightly explained it in his treatise on the musical modes of the Hindus. H. T. C.



#### THE Murchhands of Madhyama Grama:

2d. from Sa to Ri.

3d. - Sa to Ga, greater third.

4th. - Sa to Ma.

5th. - Sa to Pa.

6th. - Sa to Dha, greater fixth.

7th. - Sa to Ni.

8th. - Sa to Sa,

# Mûrchhaná of Gándhara Grama:

Sa to Ri.

Sa to Ga, minor third.

Sa to Mand former own to bellemme a service waste

Sa to Par mod has oned on a well belowed a long

Sa to Dha, minor fixth,

Sa to Ni.

Sa to Sa,

## THE Murchhanus are all personified, and distinguished by names." viz

which I would are any a service in the service ...

#### THOSE of the Shadja Grama, are:

11 Uttara munda.

2d. Uttarávitá.

ad. Rechani.

4th. Sudhaprajaya,

5th. Sancita.

<sup>.</sup> This lift is apparently from the Sangita Retnúcara. The personified Murch' banás have other names in the Sangita Damodara. H. T. C.

6th. Chacranta.

#### THOSE of Madhyama Grama, are:

1st. Saubírí.

2d. Harina.

3. Culopanta.

1th. Sudha mad'hya.

5th. Marghi.

6th. Purvi.

7th. Rishica.

### THOSE of Gandhara Grama, are:

1ft. Mandrá.

2d. Visálá.

3d. Sumuc'hi.

4th. Chitra.

5th. Rohini or Chitravatí.

6th. Suchá.

7th. Alapá.

THE use of these Murchhanás is, in my opinion, to teach the learner to rise an octave by tones and semitones; and to descend again by the same notes; and to rise and fall by greater intervals, directly, by omitting the intermediate notes: in short the practice of solmisation.

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### APPENDIX.

ON the inflitution of the Afiatick Society, it was determined, that, in publishing the Researches of the Society, mere translations of confiderable length should not be admitted, except of such unpublished essays or treatises as might be transmitted by native authors.

In modification of this rule, it was agreed, at a meeting held on 2d July 1806, that the Society do publish, from time to time, in volumes distinct from the Asiatick Researches, translations of short works in the Asiatick languages, and extracts and descriptive accounts of books of greater length, which may be offered to the Society and appear deserving of publication.

As this publication may be expected gradually to extend to all Afiatick books, of which copies may be deposited in the library of the Society, and even to all works extant in the languages of Asia, the feries of volumes will be entitled Bibliotheca Asiatica, or a descriptive Catalogue of Asiatick books with extracts and translations.

ORIENTAL scholars are invited to communicate to the Society such translations and descriptive accounts of Asiatick books, as they may be disposed to give to the learned world through this channel of publication.

# APPENDIK

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Die:	23 for Caronapa read Caunapa.
314	20 read Jyápati.
319	26 read P. Wendel.
328	Latt line read Swarna-Bhúmí.
319	22 for in the shape of Cow read in the shape of a bow.
341	Latte fine out one for Yand'heve ward Vandit
354	10 read Chrodo.
Sala	· 21 read Becius.

18 read Anantæ Sedes.

# ERRATA AND ADDENDA,

#### IN THIS VOLUME

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	œ.	26	pe. :			31	n	æ	3
	-	ua 55,	30		-		.,		

- 12 18 for B-B read B-B'.
- 15 14 for Sibres read fibres.
- 144 16 for 1740. It read 1740, it.
- 251 4 Read for it is a mortal fin.
- 252 19 for MAM read MAN.
- 253 a8 after nature a comma-and for The read the.
- 257 5 for wordly read worldly. .
- 264 Notes line 4 for may be an meant. It being, read may be here meant: it begins,
- 265 4 after Guru a full ftop.
- 293 I read Brábmana.
- 318 12 read Paramabanfa.
- 331 II for part read ftar.
- 390 lait for Ib. id. read Id. ib.

### Page 81 line 18 The following paragraph to be added.

The Magas in Bengal are mentioned by Pliny under the name of Macca-Calingas. It appears from the context, that the upper part of the Bay of Bengal was divided into three parts, called in general Calinga, or the fea-shore in Sanscrit, from its abounding with creeks. West Calinga extended from the river of Cuttaca to the western mouth of the Ganges. In an island of the Ganges, amplie magnitudinis, of very great magnitude, and of course the Delta, was a single nation called Modo-Galica and Modo-Galenca, from the Sanscrit Madbya-Calinga or middle Calinga: then came the Macco Calingas, or the Magas of Chittigong, from Maga-Calinga. The Magas or Mugs maintained themselves as an independent tribe in the Delta for a long times and they were at last expelled by the Musulmans and the Rájas of Tipera, about the

#### ERRATA AND ADDENDA.

beginning of the fixteenth century, as mentioned by P. Monserration Through the Burman empire, Arracan and in Chittigong the Priests only are called Magas according to Col. Symes: but in Chittigong and adjacent countries, the name of Muga is also attributed to the whole tribe.

# END OF THE NINTH VOLUME.

of the Kings of Magnifes

profit in bend att, place to dien at

the sale of the second country that or the short- a



<sup>(1)</sup> Gens vero Modo-Galica, ü qui vulgo dicuntur Mogi, quamvis nostra memoria a Patanicis et Tybreris ultra Balsaris rivum pulsi Arraeani consistunt. P. Monserrar de legatione.

Mongolica. vol. the 1st. p. 19. a manuscript in my possession.

England of the fixee of commy, as membered by Pobles and V. of These

Margard empire, Assessed and in Children's the Princip only with coll.

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to the prince; but in collegely and adjacent enginers, the page of thegate also

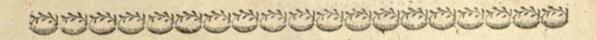
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# RARRARRARRARRARRAR

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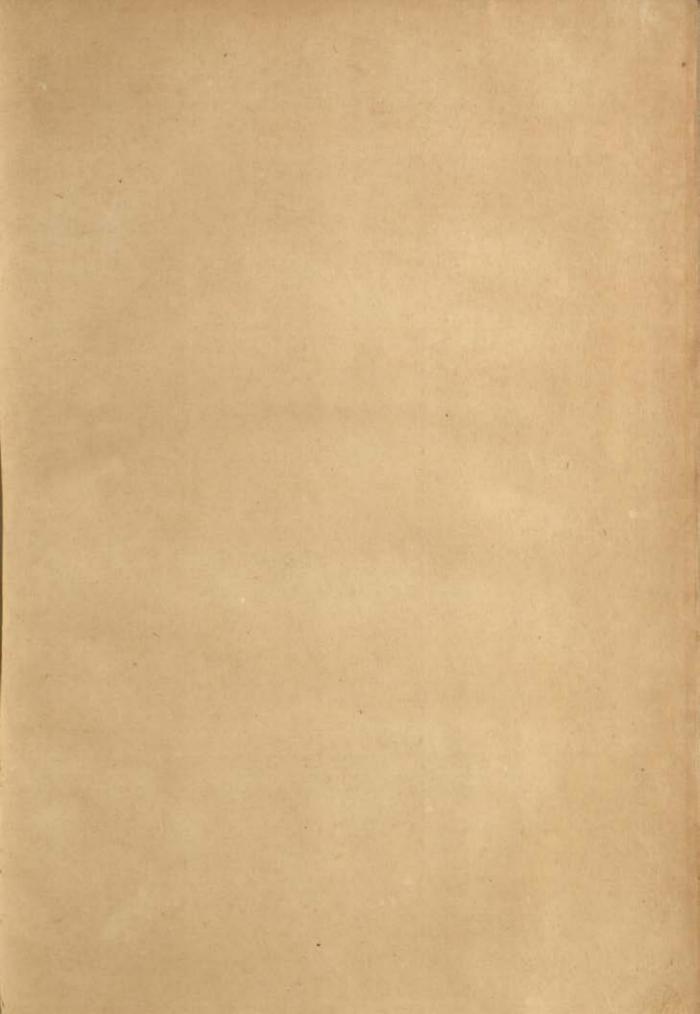


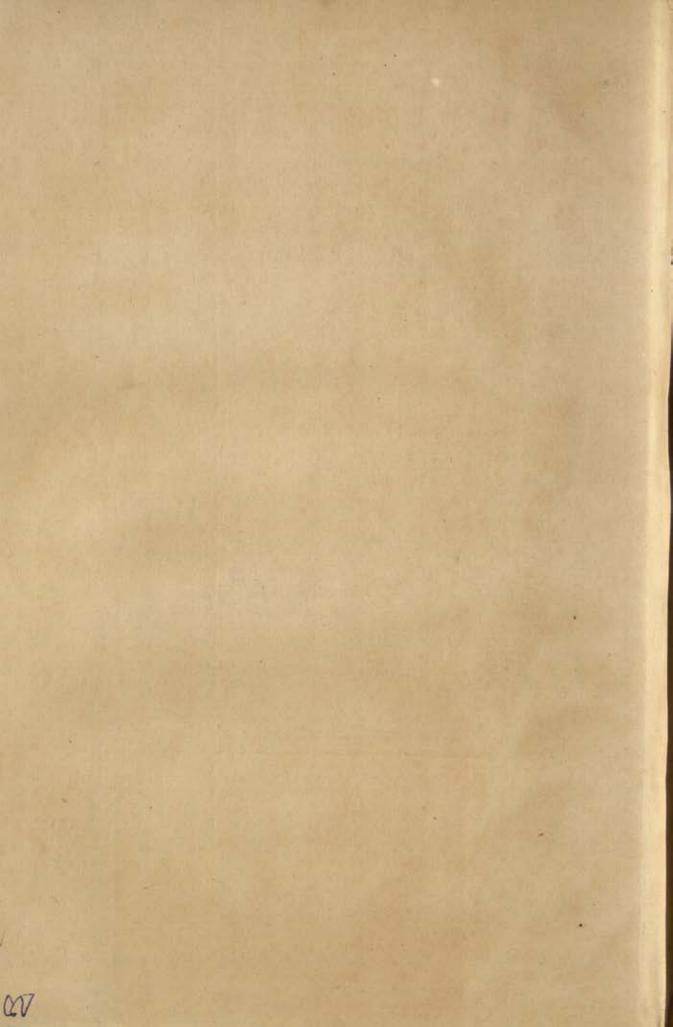
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